

Title EN	ISCO 08 Code	Definition	Tasks include	Included occupations	Excluded occupations	Notes
Armed forces occupations	0	Armed forces occupations include all jobs held by members of the armed forces. Members of the armed forces are those personnel who are currently serving in the armed forces, including auxiliary services, whether on a voluntary or compulsory basis, and who Commissioned armed forces officers provide leadership and management to organizational units in the armed forces and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group Commissioned armed forces officers provide leadership and management to organizational units in the armed forces and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes all members		Occupations in this major group are classified into the following sub-major groups: 01 Commissioned armed forces officers 02 Non-commissioned armed forces officers 03 Armed forces occupations, other ranks Occupations in this sub-major group are classified into the following minor group: 01 1 Commissioned armed forces officers Occupations in this sub-major group are classified into the following unit group: 01 10 Commissioned armed forces officers	Excluded from this group are: - jobs held by persons in civilian employment of government establishments concerned with defence issues; - police (other than military police); - customs inspectors and members of border or other armed civilian services excluded from this group are: - jobs held by persons in civilian employment of government establishments concerned with defence issues; - police (other than military police); - jobs held by persons in civilian employment of government establishments concerned with defence issues; - police (other than military police); - customs inspectors and	Many jobs performed by members of the armed forces are similar, in terms of the nature of the work performed, to civilian occupations such as medical doctors, radio operators, cooks, secretaries and heavy truck drivers. Conceptually, it may be appropriate
Commissioned armed forces officers	01					
Commissioned armed forces officers	011					

Commissioned armed forces officers	0110
Non-commissioned armed forces officers	02
Non-commissioned armed forces officers	021
Non-commissioned armed forces officers	0210

Commissioned armed forces officers provide leadership and management to organizational units in the armed forces and/or perform similar tasks to those performed in a variety of civilian occupations outside the armed forces. This group includes all members

Non-commissioned armed forces officers enforce military discipline and supervise the activities of those employed in Armed forces occupations, other ranks, and/or perform similar tasks to those performed in a variety of civilian occupations outside the ar

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Examples of the occupations classified

here: Admiral
Air commodore
Air marshal
Brigadier (army)
Officer cadet (armed forces)
Captain (air force)
Captain (army)
Group captain, (air force)
Captain (navy)
Colonel (army)
Navy commander
Wing commander
Air com

Excluded from this group are:
- jobs held by persons in civilian employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed civilian serv
- jobs held by persons in civilian employment of government

Occupations in this sub-major group are establishments concerned with classified into the following minor group: defence issues;

021 Non-commissioned armed forces officers

- police (other than military police);
- customs inspectors and
- jobs held by persons in civilian employment of government

Occupations in this minor group are classified into the following unit group:

0210 Non-commissioned armed forces officers

establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and
- jobs held by persons in civilian

Examples of the occupations classified here:

Boatswain (navy)
Flight sergeant
Sergeant (army)
Sergeant major
Warrant officer

employment of government establishments concerned with defence issues;
- police (other than military police);
- customs inspectors and members of border or other armed

Armed forces occupations, other ranks	03	Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a var	Occupations in this sub-major group are classified into the following minor group: defence issues;	- jobs held by persons in civilian employment of government establishments concerned with defence issues;
Armed forces occupations, other ranks	031	Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a var	03 1 Armed forces occupations, other ranks	- police (other than military police); - customs inspectors and - jobs held by persons in civilian employment of government establishments concerned with defence issues;
Armed forces occupations, other ranks	0310	Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a var	03 10 Armed forces occupations, other ranks	- police (other than military police); - customs inspectors and
Armed forces occupations, other ranks	0310	Armed forces occupations, other ranks include all conscripted and non-conscripted members of the armed forces except commissioned and non-commissioned officers. They perform specific military tasks and/or perform similar tasks to those performed in a var	Examples of the occupations classified here: Airman Bombardier Corporal (air force) Corporal (army) Coxswain (navy) Gunner Infantryman/woman Paratrooper Rifleman/woman Seaman (navy)	Excluded from this group are: - jobs held by persons in civilian employment of government establishments concerned with defence issues; - police (other than military police); - customs inspectors and members of border or other armed civilian serv
Managers	1	Managers plan, direct, coordinate and evaluate the overall activities of enterprises, governments and other organizations, or of organizational units within them, and formulate and review their policies, laws, rules and regulations.	Tasks performed by managers usually include: formulating and advising on the policy, budgets, laws and regulations of enterprises, governments and other organizational units; establishing objectives and standards and formulating and evaluating programs	Occupations in this major group are classified into the following sub-major groups: 11 Chief executives, senior officials and legislators 12 Administrative and commercial managers 13 Production and specialized services managers 14 Hospitality, r
Chief executives, senior officials and legislators	11	Chief executives, senior officials and legislators formulate and review the policies and plan, direct coordinate and evaluate the overall activities of enterprises, governments and other organizations with the support of other managers	Tasks performed usually include: presiding over or participating in the proceedings of legislative bodies, boards of directors and committees; formulating and advising on the policy budgets, laws and regulations of enterprises, governments and other org	Occupations in this sub-major group are classified into the following minor groups: 111 Legislators and senior officials 112 Managing directors and chief executives

Legislators and senior officials	111	Legislators and senior officials determine, formulate, advise on and direct the implementation of policies of national, state, regional or local governments or communities, and of special interest organizations. They make, ratify, amend or repeal laws,	Tasks performed usually include: presiding over or participating in the proceedings of legislative bodies and administrative councils of governments, legislative assemblies, local communities and special interest organizations; serving on government admin	Occupations in this minor group are classified into the following unit groups: 1111 - Legislators 1112 - Senior government officials 1113 - Traditional chiefs and heads of village 1114 - Senior officials of special-interest organizations
Legislators	1111	Legislators determine, formulate, and direct the proceedings of legislative bodies and administrative councils of national, state, regional or local governments or international governmental agencies, and make, ratify, amend or repeal laws, public rules and regulations. They include elected and non-elected m	Tasks include - (a) presiding over or participating in the proceedings of legislative bodies and administrative councils of national, state, regional or local governments or legislative assemblies; (b) determining, formulating, and directing policies o	- City councillor - Government minister - Mayor - Member of parliament - President (government) - Secretary of State - Senator - State Governor
Senior government officials	1112	Senior government officials advise governments on policy matters, oversee the interpretation and implementation of government policies and legislation by government departments and agencies, represent their country abroad and act on its behalf, or carry	Tasks include - (a) advising national, state, regional or local governments and legislators on policy matters; (b) advising on the preparation of government budgets, laws and regulations, including amendments; (c) establishing objectives for governmen	- Ambassador - City administrator - Civil service commissioner - Consul-general - Director-general (government department) - Director-general (intergovernmental organization) - Fire commissioner - Inspector-general (police) - Permanent head (gove Chief executives of Government owned enterprises are included in unit group 1120, Managing directors and chief executives.

Traditional chiefs and heads of villages	1113	Traditional chiefs and heads of villages perform a variety of legislative, administrative and ceremonial tasks and duties, determined by ancient traditions, as well as by the division of rights and responsibilities between village chiefs and the local, Tasks include - (a) allocating the use of communal land and other resources among households in the community or village; (b) collecting and distributing surplus production of the community or village; (c) settling disputes between members of the co
Senior officials of special-interest organizations	1114	Senior officials of special-interest organizations determine, formulate and direct the implementation of policies of special-interest organizations, such as political-party organizations, trade unions, employers' organizations, trade and industry associa Tasks include - (a) determining and formulating the policies, rules and regulations of the organization; (b) planning, directing and coordinating the general functioning of the organization; (c) reviewing the operations and results of the organizati
Managing directors and chief executives	112	Managing directors and chief executives formulate and review the policies and plan, direct, coordinate and evaluate the overall activities of enterprises or organizations (except special interest organizations and government departments) with the support Tasks performed usually include: planning, directing and coordinating the general functioning of an enterprise or organization; reviewing the operations and results of the enterprise, or organization, and reporting to boards of directors and governing bo Occupations in this minor group are classified into the following unit group: 1120 - Managing directors and chief executives

Managing directors and chief executives	1120	Managing directors and chief executives formulate and review the policies and plan, direct coordinate and evaluate the overall activities of enterprises or organizations (except special interest organizations and government departments) with the support	Tasks include - (a) planning, directing and coordinating the general functioning of an enterprise or organization; (b) reviewing the operations and results of the enterprise, or organization and reporting to boards of directors and governing bodies; (c)	Examples of the occupations classified here: - Chief executive - Managing director - Regional manager	Regional managers and other senior managers who coordinate and supervise the activities of subordinate managers who have a diverse range of functional responsibilities are included in unit group 1120, Managing director: and chief executives. Managers resp
Administrative and commercial managers	12	Administrative and commercial managers plan, organize, direct, control and coordinate the financial, administrative, human resource, policy, planning, research and development, advertising, public relations, and sales and marketing activities of enterpris	Tasks performed by workers in this sub-major group usually include: formulating and administering policy advice, strategic and financial planning; establishing and directing operational and administrative procedures; implementing, monitoring and evaluatin	Occupations in this sub-major group are classified into the following minor groups: 121 Business services and administration managers 122 Sales, marketing and development managers	
Business services and administration managers	121	Business services and administration managers plan, organize, direct, control and coordinate the financial, administrative, human resource, policy, planning, activities of organizations, or of enterprises that provide such services to other enterprises	Tasks usually include: formulating and administering policy advice, strategic and financial planning; establishing and directing operational and administrative procedures; implementing, monitoring and evaluating strategies and policies; providing advice	Occupations in this minor group are classified into the following unit groups: 1211 - Finance managers 1212 - Human resource managers 1213 - Policy and planning managers 1219 - Business services and administration managers not elsewhere classifye	
Finance managers	1211	Finance managers plan, direct and coordinate the financial operations of an enterprise or organization, in consultation with senior managers and with managers of other departments or sections.	Tasks include - (a) planning, directing and coordinating the financial operations of an enterprise or organization; (b) assessing the financial situation of the enterprise or organization, preparing budgets and overseeing financial operations; (c) con	Examples of the occupations classified here: - Administration manager - Company secretary - Finance manager	Some related occupations classified elsewhere: - Financial institution branch manager - 1346 - Financial controller - 2411 - Management accountant - 2411

Human resource managers	1212	Human resource managers, plan, direct and coordinate policies concerning the personnel, industrial relations and occupational health and safety activities of an enterprise or organization, or of enterprises that provide human resource services to other e	Tasks include - (a) planning, directing and coordinating the personnel and industrial relations activities, policies and practices of an enterprise or organization; (b) planning and organizing procedures for recruitment, training, promotion, transfer a	Examples of the occupations classified here: - Industrial relations manager - Personnel manager - Recruitment manager
Policy and planning managers	1213	Policy and planning managers plan, organize, direct and coordinate policy advice and strategic planning activities within government or for non-government organizations and private sector agencies, or manage the activities of enterprises that provide pol	Tasks include - (a) developing, implementing and monitoring strategic plans, programs, policies, processes, systems and procedures to achieve goals, objectives and work standards; (b) developing, directing, administering and participating in policy r	Examples of the occupations classified here: - Policy manager - Strategic planning manager - Corporate planning manager
Business services and administration managers not elsewhere classified	1219	This unit group covers business services and administration managers not classified elsewhere in minor group 121, Business services and administration managers. For instance, the group includes occupations such as facilities manager, cleaning services ma	In such cases tasks would include: (a) providing administrative, strategic planning and operational support, research and advice to senior management on matters such as the management of building facilities and administrative services; (b) developing a	Examples of the occupations classified here: - Administrative services manager - Cleaning services manager - Corporate services manager - Facilities manager - Purchasing manager

Sales, marketing and development managers	122	Sales, marketing and development managers plan, organize, direct, control and coordinate the advertising, public relations, research and development, and sales and marketing activities of enterprises and organizations, or of enterprises that provide such Tasks usually include: formulating and implementing policies and plans for advertising, public relations, product development, sales and marketing in consultation with other managers; directing the development of initiatives for new products or scientific Occupations in this minor group are classified into the following unit groups: 1221 Sales and marketing managers 1222 Advertising and public relations managers 1223 Research and development managers
Sales and marketing managers	1221	Sales and marketing managers plan, direct and coordinate the sales and marketing activities of an enterprise or organization, or of enterprises that provide sales and marketing services to other enterprises and organizations. Tasks include - (a) planning and organizing special sales and marketing programmes based on sales records and market assessments; (b) determining price lists, discount and delivery terms, sales promotion budgets, sales methods, special incentives and c Examples of the occupations classified here: - Marketing manager - Sales manager
Advertising and public relations managers	1222	Advertising and public relations managers plan, direct and coordinate the advertising, public relations and public information activities of enterprises and organizations or of enterprises that provide related services to other enterprises and organizations Tasks include - (a) planning, directing and coordinating the advertising and public relations activities of an enterprise or organization; (b) negotiating advertising contracts with clients or with newspapers, radio and television stations, sports and Examples of the occupations classified here: - Advertising manager - Public relations manager

Research and development managers	1223	Research and development managers plan, direct and coordinate the research and development activities of an enterprise or organization or of enterprises that provide related services to other enterprises and organizations. Tasks include - (a) planning, directing and coordinating research and development activities, in-house or commissioned from external research organizations, to develop new or improved technical processes, products, knowledge, or utilization of materia Examples of the occupations classified here: - Product development manager - Research manager
Production and specialized services managers	13	Production and specialized services managers plan direct and coordinate the production of the goods and the provision of the specialized professional and technical services provided by an enterprise or organization. They are responsible for manufacturi Tasks performed by workers in this sub-major group usually include: planning details of activities in terms of output, services provided, quality, quantity, cost, timeliness and labour requirements; setting standards and objectives; controlling the operat Occupations in this sub-major group are classified into the following minor groups: 131 Production managers in agriculture, forestry and fisheries 132 Manufacturing, mining, construction, and distribution managers 133 Information and communications techn Specialized qualifications and extensive experience relevant to one or more occupations classified in major group 2, Professionals, or major group 3, Technicians and associate professionals, are usually required.
Production managers in agriculture, forestry and fisheries	131	Production managers in agriculture, forestry and fisheries plan, direct, and coordinate production in large scale agricultural, horticultural, forestry aquaculture and fishery operations such as plantations, large ranches, collective farms and co-operativ Tasks performed usually include: monitoring market activity and planning production to meet contract requirements and market demand; establishing and managing budgets, monitoring production output and costs, recording information such as farm and fisheri Occupations in this minor group are classified into the following unit groups: 1311 Agricultural and forestry production managers 1312 Aquaculture and fisheries production managers

Agricultural and forestry production managers

1311

Agricultural and forestry production managers plan, direct, and coordinate production in large scale agricultural, horticultural and forestry operations such as plantations, large ranches, collective farms and agricultural co-operatives to grow and harve

Tasks include -
(a) monitoring agricultural and forestry market activity and planning production to meet contract requirements and market demand;
(b) establishing and managing budgets, monitoring production output and costs, recording information such

Examples of the occupations classified here:
- Forestry manager
- Plantation manager

Aquaculture and fisheries production managers

1312

Aquaculture and fisheries production managers plan, direct, and coordinate production in large scale aquaculture and fishery operations to catch and harvest fish and shellfish, and to grow fish shellfish or other forms of aquatic life, as cash crops or f

Tasks include -
(a) monitoring aquaculture and fishery market activity and planning production and fishing activities to meet contract requirements and market demand;
(b) establishing and managing budgets, monitoring production output and costs, reco

Examples of the occupations classified here:
- Aquaculture production manager
- Fishing operations manager
- Shore captain (fishing)
- Trawler manager

Some related occupations classified elsewhere:
- Fish farmer - 6221
- Fish hatchery manager - 6221
- Oyster Farmer - 6221
- Seafood Farmer - 6221
- Fishing vessel skipper (coastal waters) - 6222
- Fishing master (deep sea) – 6223

Manufacturing, mining, construction, and distribution managers	132	Manufacturing, mining, construction, and distribution managers plan, organize, and coordinate the manufacturing, mineral extraction, construction, supply, storage and transportation operations.	Tasks performed usually include: planning details of activities in terms of output quality and quantity, cost, timeliness and labour requirements; controlling the operation of plant and quality procedures through planning of maintenance, designation of op	Occupations in this minor group are classified into the following unit groups: 1321 Manufacturing managers 1322 Mining managers 1323 Construction managers 1324 Supply, distribution and related managers
Manufacturing managers	1321	Manufacturing managers plan, direct, and coordinate manufacturing production activities of large enterprises or as the manager of a small manufacturing company.	Tasks include - (a) determining, implementing and monitoring production strategies, policies and plans; (b) planning details of production activities in terms of output quality and quantity, cost, time available and labour requirements; (c) controlli	Examples of the occupations classified here: - Manufacturer - Manufacturing manager - Production and operations manager (manufacturing) Some related occupations classified elsewhere: - Production supervisor (manufacturing) - 3122

Mining managers	1322	Mining managers plan, direct, and coordinate the production activities of mining quarrying and oil and gas extraction operations.	Tasks include - (a) conferring with other managers to set production quotas, plan extraction sites and develop policies for the removal of raw materials; (b) evaluating efficiency of production sites to determine adequacy of personnel, equipment and te	Examples of the occupations classified here: - Mine manager - Production manager (mine) - Production manager (oil and gas extraction) - Production manager (quarry) - Quarry manager	Some related occupations classified elsewhere: Mine deputy - 3121 Mine supervisor - 3121 Mine under-manager - 3121 Quarry supervisor - 3121
Construction managers	1323	Construction managers plan, direct and coordinate the construction of civil engineering projects, buildings and dwellings.	Tasks include - (a) interpreting architectural drawings and specifications; (b) coordinating labour resources, and procurement and delivery of materials, plant and equipment; (c) negotiating with building owners, property developers and subcontractors.	Examples of the occupations classified here: - Construction project manager - Project builder	Some related occupations classified elsewhere: Building construction supervisor - 3123 House builder - 7111

Supply, distribution and related managers	1324	Supply, distribution and related managers plan, direct and coordinate the supply, transportation, storage and distribution of goods.	Tasks include - (a) determining, implementing and monitoring purchasing, storage and distribution strategies, policies and plans; (b) preparing and implementing plans to maintain required stock levels at minimum cost; (c) negotiating contracts with	Examples of the occupations classified here: - Logistics manager - Railway station master - Supply and distribution manager - Supply chain manager - Transport company manager - Warehouse manager
Information and communications technology service managers	133	Information and communications technology service managers plan, direct, and coordinate the acquisition, development, maintenance and use of computer and telecommunication systems.	Tasks usually include: consulting with users, management, vendors, and technicians to assess computing needs and system requirements and specifying technology to meet those needs; formulating and directing information and communication technology (ICT) s	Occupations in this minor group are classified into the following unit groups: 1330 Information and communications technology service managers

Information and communications technology service managers	1330	Information and communications technology service managers plan, direct, and coordinate the acquisition, development, maintenance and use of computer and telecommunication systems.	Tasks include - (a) consulting with users, management, vendors, and technicians to assess computing needs and system requirements and specifying technology to meet those needs; (b) formulating and directing information and communication technology (IC	Examples of the occupations classified here: - Application development manager - Chief information officer - Data operations manager - Data processing manager - ICT development manager - Information systems director - Information technology manag	
Professional services managers	134	Professional services managers plan, direct and coordinate the provision of childcare, health, welfare, education and other professional services, and manage the branches of institutions providing financial and insurance services.	Tasks usually include: formulating policies and plans for the provision of services and operation of establishments; setting standards and objectives; developing and implementing programs and services to meet the needs of clients; directing and coordinat	Occupations in this minor group are classified into the following unit groups: 1341 Child care services managers 1342 Health services managers 1343 Aged care services managers 1344 Social welfare managers 1345 Education managers 1346 Financial and	Professional services managers are responsible for planning, directing and coordinating the provision of specialized professional and technical services. Specialized qualifications and extensive experience relevant to one or more occupations classified in
Child care service managers	1341	Child care service managers plan, direct, and coordinate and evaluate the provision of care for children in before-school, after-school, vacation and day care centres and services.	Tasks include - (a) developing and implementing programs to enhance the physical, social, emotional and intellectual development of young children; (b) establishing and monitoring budgets and determining allocation of funds for staff, supplies, materia	Examples of the occupations classified here: - Child Care Centre Manager	

Health service managers	1342	Health service managers plan, direct coordinate and evaluate the provision of clinical and community health care services in hospitals, clinics, public health agencies and similar organizations.	Tasks include - (a) providing overall direction and management for the service, facility, organization or centre; (b) directing, supervising and evaluating the work activities of medical, nursing, technical, clerical, service, maintenance, and other	Examples of the occupations classified here: - Clinical director - Community health care coordinator - Director of nursing - Hospital matron - Medical administrator	Some related occupations classified elsewhere: - Aged care service manager - 1343
Aged care service managers	1343	Aged care service managers plan, direct coordinate and evaluate the provision of residential and personal care services for individuals and families who are in need of such services due to the effects of ageing.	Tasks include - (a) providing overall direction and management for a service, facility, organization or centre; (b) directing, supervising and evaluating the work activities of medical, nursing, technical, clerical, service, maintenance, and other pe	Examples of occupations classified here: - Aged care home director - Community aged care coordinator - Nursing home director - Retirement village coordinator	Some related occupations classified elsewhere: - Health service manager - 1342

Social welfare managers	1344	Social welfare managers plan, direct, and coordinate the provision of social and community service programs such as income support, family assistance, children's services and other community programs and services. Tasks include - (a) providing overall direction and management for a service, facility, organization or centre; (b) developing, implementing and monitoring procedures, policies and standards for staff; (c) monitoring and evaluating resources devote	Examples of the occupations classified here: - Community centre manager - Family services manager - Housing services manager - Welfare Centre Manager
Education managers	1345	Education managers plan, direct, coordinate and evaluate the educational and administrative aspects of education services, primary and secondary schools, colleges and faculties and departments in universities and other educational institutions. Tasks include - (a) determining educational programs based on frameworks established by education authorities and governing bodies; (b) implementing systems and procedures to monitor school performance and student enrolments; (c) directing administra	Examples of the occupations classified here: - School Principal

Financial and insurance services branch managers	1346	Financial and insurance services branch managers plan, direct, and coordinate the branches of institutions that provide financial and insurance services, such as banks, building societies, credit unions and insurance companies. They provide advice and as	Tasks include (a) planning, directing and coordinating the activities of staff in the branch; (b) establishing and maintaining relationships with individual and business customers; (c) providing advice and assistance to customers on their financial an	Examples of the occupations classified here: - Bank manager - Building society manager - Credit union manager, - Insurance agency manager	Some related occupations classified elsewhere: - Finance manager - 1211 - Credit and loans officer - 3312 - Insurance agent - 3321
Professional services managers not elsewhere classified	1349	This unit group covers managers who plan, direct coordinate and evaluate the provision of specialized professional and technical services and are not classified in sub-major group 12, Business services and administration managers, or elsewhere in sub-maj	In such cases tasks would include: (a) providing overall direction and management for a service, facility, organization or centre; (b) developing, implementing and monitoring procedures, policies and standards for staff; (c) directing, supervising an	Examples of the occupations classified here: - Archives manager - Art gallery manager - Correctional services manager - Legal service manager, - Library manager - Museum manager - Police superintendent - Prison governor	Professional services managers are responsible for planning, directing and coordinating the provision of specialized professional and technical services. Specialized qualifications and extensive experience relevant to one or more occupations classified in
Hospitality, retail and other services managers	14	Hospitality, shop and related services managers plan, organize and direct the operations of establishments which provide accommodation, hospitality, retail and other services.	Tasks performed by workers in this sub-major group usually include: planning and organising special functions, sporting, gaming and entertainment activities and the range and mix of products, stock levels and service standards; promoting and selling good Tasks performed usually include:	Occupations in this sub-major group are classified into the following minor groups: 141 Hotel and restaurant managers 142 Retail and wholesale trade managers 143 Other services managers	Sub-major group 14 Hospitality, shop and related managers is for managers of establishments that provide services directly to the public, usually in organizations that are too small to have hierarchies of managers. Managers responsible for planning, dire
Hotel and restaurant managers	141	Hotel and restaurant managers plan, organize and direct the operations of establishments that provide accommodation, meals, beverages and other hospitality services.	planning and organizing special functions, sporting, gaming and entertainment activities; directing and overseeing reservation, reception, room service and housekeeping	Occupations in this minor group are classified into the following unit groups: 1411 Hotel managers 1412 Restaurant managers	

Hotel managers	1411	Hotel managers plan, organize and direct the operations of hotels, motels and similar establishments to provide guest accommodation and other services.	Tasks include - (a) directing and overseeing reservation, reception, room service and housekeeping activities; (b) supervising security arrangements, and garden and property maintenance; (c) planning and supervising bar, restaurant, function and conf	Examples of the occupations classified here: - Hotel manager - Motel manager - Youth hostel manager	Some related occupations classified elsewhere: - Bed and breakfast operator - 5152	Operators of small establishments, such as some bed and breakfast establishments and small guest houses, that provide accommodation and limited meal services to clients effectively as paying guests in private households, and for whom the management and s
Restaurant managers	1412	Restaurant managers plan, organize and direct the operations of cafes, restaurants and related establishments to provide dining and catering services.	Tasks include - (a) planning menus in consultation with chefs and cooks; (b) planning and organizing special functions; (c) arranging the purchasing and pricing of goods according to budget; (d) maintaining records of stock levels and financial tran	Examples of the occupations classified here: - Cafe Manager - Restaurant Manager - Catering Manager	Some related occupations classified elsewhere: Chef - 3434	
Retail and wholesale trade managers	142	Retail and wholesale trade managers plan, organize, coordinate and control the operations of establishments that sell goods on a retail or wholesale basis. They are responsible for the budgets, staffing and strategic and operational direction of shops, o	Tasks usually include - determining product mix, stock levels and service standards; formulating and implementing purchasing and marketing policies, and setting prices; promoting and advertising the establishment's goods and services; maintaining records	Occupations in this minor group are classified into the following unit groups: 1420 Retail and wholesale trade managers		Retail and wholesale trade managers are frequently employed in relatively small establishments that do not have a hierarchy of managers. The managers of large retail establishments such as supermarkets and department stores, however, should also be class

Retail and wholesale trade managers	1420	Tasks include - (a) determining product mix, stock levels and service standards; Retail and wholesale trade managers, plan, organize, co-ordinate and control the operations of establishments that sell goods on a retail or wholesale basis. They are responsible for the budgets, staffing and strategic and operational direction of shops,	(b) formulating and implementing purchasing and marketing policies, and setting prices; (c) promoting and advertising the establishment's goods and services; (d) managing the range and mix of services or activities provided; ensuring that facilities are kept clean and in good condition; keeping abreast of new trends and developments relevant to the service provided; advising on	Examples of occupations classified here: - Retail manager - Supermarket manager - Grocery manager - Shop manager Occupations in this minor group are classified into the following unit groups: 1431 Sports, recreation and cultural centre managers 1439 Services managers not elsewhere classified	Some related occupations classified elsewhere: - Sales manager - 1221 - Shopkeeper - 5221 - Shop supervisor - 5222 - Shop sales assistant - 5223	Retail and wholesale trade managers are frequently employed in relatively small establishments that do not have a hierarchy of managers. The managers of large retail establishments such as supermarkets and department stores, however, should generally be classified elsewhere.
Other services managers	143	Other services managers plan, organize, and control the operations of establishments that provide sporting, cultural, recreational, travel, customer contact and other amenity services.				
Sports, recreation and cultural centre managers	1431	Sports, recreation and cultural centre managers plan, organize, and control the operations of establishments that provide sporting, artistic, theatrical and other recreational and amenity services.	Tasks include - (a) planning and organizing the range and mix of entertainment, attractions, cultural activities, and sports and fitness programmes to be offered by the centre; (b) ensuring that facilities are kept clean and in good condition; (c) keeping	Examples of the occupations classified here: - Amusement/ theme park manager - Billiards or pool hall manager - Casino manager - Cinema manager - Leisure centre manager - Riding school manager - Sports centre manager - Theatre manager	Some related occupations classified elsewhere: - Art gallery manager - 1349 - Museum manager - 1349 - Library manager - 1349	
Services managers not elsewhere classified	1439	This unit group covers managers that plan, direct and coordinate the provision of services and are not classified in sub-major group 13, Production and specialized services managers or elsewhere in sub-major group 14, Hospitality, retail and other services.		Examples of the occupations classified here: - Travel agency manager - Conference centre manager - Contact centre manager - Shopping centre manager - Camp site manager - Caravan park manager Occupations in this major group are classified into the following sub-major groups:		Excluded from this unit group are occupations that involve managing the provision of specialized professional and technical services and require specialized qualifications and experience relevant to one or more occupations classified in major group 2, Professionals.
Professionals	2	Professionals increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these activities. Competent performance in most occupations in	Tasks performed by professionals usually include: conducting analysis and research, and developing concepts, theories and operational methods, and advising on or applying existing knowledge related to physical sciences including mathematics, engineering	21 Science and engineering professionals 22 Health professionals 23 Teaching professionals 24 Business and administration professionals 25 Information and communications		

Science and engineering professionals	21	Physical, mathematical and engineering science professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to fields such as physics, astronomy, meteorology, chemistry, geophysics	Tasks performed by workers in this sub-major group usually include: conducting research, enlarging, advising on or applying scientific knowledge obtained through the study of structures and properties of physical matter and phenomena, chemical character	Occupations in this sub-major group are classified into the following minor groups:
				211 Physical and earth science professionals 212 Mathematicians, actuaries and statisticians 213 Life science professionals 214 Engineering professionals (excluding elec
Physical and earth science professionals	211	Physical and earth science professionals conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to physics, astronomy, meteorology, chemistry, geology and geophysics.	Tasks performed usually include: enlarging scientific knowledge through research and experiments related to mechanics, thermodynamics, optics, sonics, electricity, magnetism, electronics, nuclear physics, astronomy, various branches of chemistry, atmosph	Occupations in this minor group are classified into the following unit groups: 2111 Physicists and astronomers 2112 Meteorologists 2113 Chemists 2114 Geologists and geophysicists
Physicists and astronomers	2111	Physicists and astronomers conduct research and improve or develop concepts, theories and operational methods concerning matter, space, time, energy, forces and fields and the interrelationship between these physical phenomena. They apply scientific know	Tasks include - (a) conducting research and improving or developing concepts, theories, instrumentation, software and operational methods related to physics and astronomy; (b) conducting experiments, tests and analyses on the structure and properties o	Examples of the occupations classified here: - Astronomer - Medical Physicist - Nuclear Physicist - Physicist Some related occupations classified elsewhere: - Specialist physician (nuclear medicine) - 2212 - Radiation oncologist - 2212 - Radiologist - 2212 - Radiographer - 3211 It should be noted that, while they are appropriately classified in this unit group with other physicists, medical physcists are considered to be an integral part of the health work force alongside those occupations classified in sub-major group 22, Healt

Meteorologists	2112
Chemists	2113

Tasks include -
 (a) investigating direction and speed of air movements, pressures, temperatures, humidity, physical and chemical transformation of pollutants and other phenomena such as cloud formation and precipitation, electrical disturbances or solar

Meteorologists prepare short-term or long-term weather forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public. They conduct research related to the composition, structure and dynamics of the atmosphere.

Examples of the occupations classified here:
 - Climatologist
 - Hydrometeorologist
 - Meteorologist
 - Weather forecaster

Tasks include -
 (a) conducting research and improving or developing concepts, instruments, theories and operational methods related to chemistry;
 (b) conducting experiments, tests and analyses to investigate chemical composition and energy and chemical

Chemists conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to chemistry, to develop new knowledge or products and for quality and process control.

Examples of the occupations classified here:
 - Chemist

Some related occupations classified elsewhere:
 - Biochemist - 2131
 - Pharmacologist - 2131
 - Pharmacist - 2262

Geologists and geophysicists	2114

Geologists and geophysicists conduct research; improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploration and extraction, water conser

Tasks include -
 (a) conducting research and improving or developing concepts, theories and operational methods related to geology and geophysics;
 (b) studying composition and structure of the Earth's crust, examining rocks, minerals, fossils and other

Examples of the occupations classified here:
 - Geological oceanographer
 - Geologist
 - Geophysical oceanographer
 - Geophysicist

Mathematicians, actuaries and statisticians	212

Mathematicians, actuaries and statisticians conduct research, improve or develop mathematical, actuarial and statistical concepts, theories and operational models and techniques and apply this knowledge to a wide range of tasks in such fields as engineeri

Tasks performed usually include: studying, improving and developing mathematical, actuarial and statistical theories and techniques; advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineer

Occupations in this minor group are classified into the following unit group:
 2120 Mathematicians, actuaries and statisticians

						Some related occupations classified elsewhere:
			(a) studying, improving and developing mathematical, actuarial and statistical theories and techniques;	Examples of the occupations classified here:		- Actuarial assistant - 3314
		Mathematicians, actuaries and statisticians	(b) advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineering, natural, social, and environmental sciences;	- Actuary - Operations research analyst - Demographer - Mathematician - Statistician		- Mathematical assistant - 3314
Mathematicians, actuaries and statisticians	2120	conduct research and improve or develop mathematical, actuarial and statistical concepts, theories and operational methods and techniques and advise on or engage in their practical application in such fields as	collecting, analyzing and evaluating experimental and field data to identify and develop new processes and techniques; providing advice and support to governments, organizations and businesses about ecological production, and solve human health and sustainable	classified into the following unit groups:		- Statistical assistant- 3314 - Actuarial clerk - 4312 - Statistical clerk - 4312 - Information systems analyst - 2511
		Life science professionals apply knowledge gained from research into human, animal and plant life and their interactions with each other and the environment to develop new knowledge, improve agricultural and forestry production, and solve human health and		2131 Biologists, botanists, zoologists and related professionals 2132 Farming, forestry and fisheries advisers 2133 Environmental protection		
Life science professionals	213					
				Examples of the occupations classified here:		
			(a) undertaking research in laboratories and in the field to increase scientific knowledge of living organisms; to discover new information; to test hypotheses; to solve problems in areas such as the environment, agriculture and health; and to develop new	- Animal Behaviourist - Bacteriologist - Biologist - Biotechnologist - Botanist - Cell Geneticist - Marine Biologist - Microbiologist - Molecular Biologist - Molecular Geneticist		Some related occupations classified elsewhere: - Ecologist - 2133
Biologists, botanists, zoologists and related professionals	2131	Biologists, botanists, zoologists and related professionals study living organisms and their interactions with each other and with the environment, and apply this knowledge to solve human health and environmental problems. They work in diverse fields such				

Farming, forestry and fisheries advisers	2132
Environmental protection professionals	2133

Tasks include -
 (a) collecting and analysing data and samples related to produce, feed, soil, water quality and other factors affecting farm, forest or fishery production;
 (b) advising on techniques for improving the production of crops, livestock and

Farming, forestry and fisheries advisers study and provide assistance and advice on farm, forestry and fisheries management, including cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and

Examples of the occupations classified here:
 - Agronomist
 - Fisheries adviser
 - Forestry scientist
 - Forestry adviser
 - Silviculturist
 - Soil scientist

Environmental protection professionals study and assess the effects on the environment of human activity such as air, water and noise pollution, soil contamination, climate change, toxic waste and depletion and degradation of natural resources. They develop

(a) conducting research, performing tests, collecting samples, performing field and laboratory analysis to identify sources of environmental problems and recommending ways to prevent, control and remediate the impact of environmental problems;
 (b) assess

Examples of the occupations classified here:
 - Air Pollution Analyst
 - Conservation Officer
 - Conservation Scientist
 - Ecologist
 - Environmental Adviser
 - Environmental Auditor
 - Environmental Consultant
 - Environmental Research Sci

Some related occupations classified elsewhere:
 - Environmental Engineer - 2143
 - Environmental Health Officer - 3257

Engineering professionals (excluding electrotechnology)	214	Engineering professionals (excluding electrotechnology) design, plan and organize the testing, construction, installation and maintenance of structures, machines and their components, and production systems and plants, and plan production schedules and w	Tasks performed usually include: planning and designing chemical process systems, civil engineering projects, mechanical equipment and systems, mining and drilling operations and other engineering projects; specifying and interpreting drawings and plans	Occupations in this minor group are classified into the following unit groups: 2141 Industrial and production engineers 2142 Civil engineers 2143 Environmental engineers 2144 Mechanical engineers 2145 Chemical engineers 2146 Mining engineers, meta	
Industrial and production engineers	2141	Industrial and production engineers conduct research and design, organize and oversee the construction, operation and maintenance of process plant and installations. They establish programs for the coordination of manufacturing activities; and assess cos	Tasks include - (a) studying functional statements, organizational charts and project information to determine functions and responsibilities of workers and work units and to identify areas of duplication; (b) establishing work measurement programs and	Examples of the occupations classified here: - Industrial efficiency engineer - Industrial engineer - Plant engineer - Production engineer	Some related occupations classified elsewhere: - Manufacturing production manager - 1321
Civil engineers	2142	Civil engineers conduct research, advise on, design, and direct construction; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.	Tasks include - (a) conducting research and developing new or improved theories and methods related to civil engineering; (b) advising on and designing structures such as bridges, dams, docks, roads, airports, railways, canals, pipelines, waste-disposa	Examples of the occupations classified here: - Civil engineer - Geotechnical engineer - Structural engineer	Some related occupations classified elsewhere: - Civil engineering project manager - 1323 - Geoscientist - 2114 - Mining engineer - 2146 - Metallurgist - 2146 - Town and Traffic Planners - 2164

Environmental engineers	2143	Environmental engineers conduct research, advise on, design and direct implementation of solutions to prevent, control or remedy negative impacts of human activity on the environment utilizing a variety of engineering disciplines. They conduct environmen	Tasks include - (a) conducting research, assessing and reporting on the environmental impact of existing and proposed construction, civil engineering and other activities; (b) inspecting industrial and municipal facilities and programs to evaluate opera	Examples of the occupations classified here: - Air pollution control engineer - Environmental analyst - Environmental engineer - Environmental remediation specialist	Moved out of 2149
Mechanical engineers	2144	Mechanical engineers conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on me	Tasks include - (a) advising on and designing machinery and tools for manufacturing, mining, construction, agricultural, and other industrial purposes; (b) advising on and designing steam, internal combustion and other non-electric motors and engines u	Examples of the occupations classified here: - Aeronautical engineer - Marine architect - Marine engineer - Mechanical engineer Some related occupations classified elsewhere: - Ships' engineer - 3151	

Chemical engineers

2145

Chemical engineers conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials.

Tasks include -
(a) conducting research and advising on, and developing commercial-scale chemical processes to refine crude oil and other liquids or gases, and to produce substances and items such as petroleum derivatives, explosives, food and drink pro

Examples of the occupations classified here:
- Chemical engineer
- Fuel technologist
- Plastics technologist
- Refinery process engineer

Mining engineers, metallurgists and related professionals

2146

Mining engineers, metallurgists and related professionals conduct research on and , design and develop and maintain commercial scale methods of extracting metals from their ores, or minerals, water, oil or gas from the earth and of developing new alloys,

Tasks include -
(a) determining the location and planning the extraction of coal, metallic ores, non-metallic minerals, and building materials, such as stone and gravel;
(b) determining most suitable methods of efficient mining and extraction, types of

Examples of the occupations classified here:
- Extractive metallurgist,
- Mining engineer
- Petroleum and natural gas engineer

Some related occupations classified elsewhere:
- Geologist - 2114
- Geophysicist - 2114

Engineering professionals not elsewhere classified	2149	This unit group covers engineering professionals not classified elsewhere in minor group 214, Engineering professionals (excluding electrotechnology) or in minor group 215, Electrotechnology engineers. For instance, the group includes those who conduct r	In such cases tasks would include - (a) applying knowledge of engineering to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, and instrumentation; (b) designing devices used i	Examples of the occupations classified here: - Biomedical engineer - Explosive ordnance engineer - Marine salvage engineer - Materials engineer - Optical engineer - Safety engineer	Some related occupations classified elsewhere: - Industrial and production engineer - 2141 - Environmental engineer - 2143 - Surveyor - 2165
Electrotechnology engineers	215	Electrotechnology engineers conduct research on and design, advise, plan and direct the construction and operation of electronic, electrical and telecommunications systems, components, motors, and equipment. They organize and establish control systems to	conducting research, advising on and directing the maintenance and repair of electrical, electronic and telecommunications products and systems; advising on and designing power stations and systems that generate, transmit	Occupations in this minor group are classified into the following unit groups: 2151 Electrical engineers 2152 Electronics engineers 2153 Telecommunications engineers	
Electrical engineers	2151	Electrical engineers conduct research and advise on, design, and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their functioning, maintenance and repair, or study and advise on tec	Tasks include - (a) advising on and designing power stations and systems which generate , transmit and distribute electrical power; (b) supervising, controlling and monitoring the operation of electrical generation, transmission and distribution system	Examples of the occupations classified here - Electric power generation engineer - Electrical engineer - Electromechanical engineer	Examples of the occupations classified here: - Nuclear power generation engineer - 2149 - Electronics engineer - 2152 - Telecommunications Engineer 2153 - Broadcast Engineer - 2153

Electronics engineers	2152	Electronics engineers conduct research on, design, and direct the construction functioning, maintenance and repair of electronic systems and study and advise on technological aspects of electronic engineering materials, products or processes.	Tasks include - (a) advising on and designing electronic devices or components, circuits, semi-conductors, and systems; (b) specifying production or installation methods, materials and quality standards and directing production or installation work of	Examples of the occupations classified here: - Computer hardware engineer - Electronics engineer - Instrumentation engineer	Telecommunications Engineer - 2153
Telecommunications engineers	2153	Telecommunications engineers conduct research and advise on, design, and direct the construction functioning, maintenance and repair of telecommunication systems and equipment. They study and advise on technological aspects of telecommunication engineeri	Tasks include - (a) advising on and designing telecommunications devices or components, systems, equipment and distribution centres; (b) specifying production or installation methods, materials, quality and safety standards and directing production or	Examples of the occupations classified here: - Broadcast engineer - Telecommunications engineer - Telecommunications engineering technologist	Some related occupations classified elsewhere: - Electronics engineer - 2152
Architects, planners, surveyors and designers	216	Architects, planners, surveyors and designers plan and design landscapes, building exteriors and interiors; products for manufacture; and information for visual communication, publication and display. They conduct survey work to precisely position geograp	Tasks performed usually include: determining the objectives and constraints of the design brief by consulting with clients and stakeholders; formulating design concepts and plans that harmonize aesthetic considerations with technical, functional, ecologi	Occupations in this minor group are classified into the following unit groups: 2161 Building architects 2162 Landscape architects 2163 Product and garment designers 2164 Town and traffic planners 2165 Cartographers and surveyors 2166 Graphic and m	

Building architects	2161
Landscape architects	2162

Building architects design commercial, industrial, institutional, residential and recreational buildings and plan and monitor their construction, maintenance and rehabilitation.	Tasks include - (a) developing new or improved architectural theories and methods; (b) inspecting sites and consulting clients, management and other stakeholders to determine type, style and size of proposed buildings and alterations to existing buildi	Examples of the occupations classified here: - Building architect - Interior architect	Some related occupations classified elsewhere: - Landscape architect - 2162 - Interior decorator - 3432 - Interior designer - 3432
Landscape architects plan and design landscapes and open spaces for projects such as, parks, schools, institutions, roads, external areas for commercial, industrial and residential sites, and plan and monitor their construction, maintenance and rehabilit	Tasks include - (a) developing new or improved theories and methods in landscape architecture; (b) inspecting sites and consulting clients, management and other stakeholders to determine type, style and size of proposed buildings, parks, roads and othe	Examples of the occupations classified here: - Landscape architect	Some related occupations classified elsewhere: - Building architect - 2161 - Urban planner - 2164

Product and garment designers	2163	Product and garment designers design and develop products for manufacture and prepare designs and specifications of products for mass, batch and one-off production.	Tasks include - (a) determining the objectives and constraints of the design brief by consulting with clients and stakeholders; (b) formulating design concepts for clothing, textiles, industrial, commercial and consumer products, and jewellery; (c) ha	Examples of the occupations classified here: - Costume designer - Fashion designer - Industrial designer - Jewellery designer	Some related occupations classified elsewhere: - Engine designer - 2144 - Building architect - 2161 - Landscape architect - 2162 - Interior designer - 3432
Town and traffic planners	2164	Town and traffic planners develop and implement plans and policies for the controlled use of urban and rural land and for traffic systems. They conduct research and provide advice on economic, environmental and social factors affecting land use and traff	Tasks include - (a) planning layout and coordinating development of urban areas; (b) compiling and analyzing data on economic, legal, political, cultural, demographic, sociological, physical and environmental factors affecting land use; (c) conferring	Examples of the occupations classified here: - Land Planner - Traffic planner - Urban Planner	Some related occupations classified elsewhere: - Building architect - 2161 - Landscape architect - 2162
Cartographers and surveyors	2165	Cartographers and surveyors determine the exact position of, or prepare and revise digital, graphic and pictorial maps, charts or other visual representation of, natural and constructed features and boundaries of land, seas, underground areas and celesti	Tasks include - (a) surveying, measuring and describing land surfaces, mines, underground surfaces, sea, river and lake beds; (b) noting exact position of various features and recording survey data in digital form; (c) making charts and maps to be use	Examples of the occupations classified here: - Aerial surveyor, - Cadastral Surveyor - Cartographer - Hydrographic surveyor, - Land surveyor - Mine surveyor - Photogrammetrist	Some related occupations classified elsewhere: - Quantity Surveyor- 2149 - Building Surveyor - 3112 - Marine Surveyor - 3115

Graphic and multimedia designers	2166	Graphic and multimedia designers design information content for visual and audio communication, publication and display using print, film, electronic, digital and other forms of visual and audio media. They create special effects, animation, or other vis	Tasks include - (a) determining the objectives and constraints of the design brief by consulting with clients and stakeholders; (b) undertaking research and analysing functional communication requirements; (c) formulating design concepts for the subje	Examples of the occupations classified here: - Animator, - Digital artist, - Graphic designer - Illustrator - Multimedia designer - Publication designer - Web designer classified into the following minor groups:	Some related occupations classified elsewhere: - Interior architect - 2161 - Interior designer -3432 - Multimedia developer – 2513 - Visual artist - 2651 - Web developer - 2513
Health professionals	22	Health professionals conduct research, improve or develop concepts, theories and operational methods, and apply scientific knowledge relating to medicine, nursing, dentistry, veterinary medicine, pharmacy, and promotion of health.	Tasks performed by workers in this sub-major group usually include: conducting research and obtaining scientific knowledge through the study of human and animal disorders and illnesses and ways of treating them; advising on or applying preventive and c	221 Medical doctors 222 Nursing and midwifery professionals 223 Traditional and complementary medicine professionals 224 Paramedical practitioners 225 Veterinarians 226 O	In using ISCO in applications that seek to identify, describe or measure the health work force, it should be noted that a number of professions considered to be a part of the health work force are classified in groups other than sub-major group 22, Health professionals
Medical doctors	221	Medical doctors study, diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans through the application of the principles and procedures of modern medicine. They plan, supervise and evaluate the implementat	Tasks performed usually include: conducting physical examinations of patients and interviewing them and their families to determine their health status ; ordering diagnostic tests and analysing findings; prescribing and administering curative treatment	Occupations in this minor group are classified into the following unit groups: 2211 Generalist medical practitioners 2212 Specialist medical practitioners	

Generalist medical practitioners	2211	Generalist medical practitioners diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments and maintain general health in humans through application of the principles and procedures of modern medicine. They do not	Tasks include - (a) conducting physical examinations of patients and interviewing them and their families to determine their health status (b) ordering laboratory tests, X-rays and other diagnostic procedures and analysing findings to determine the	Examples of the occupations classified here: - District medical doctor - therapist - Family medical practitioner - General practitioner - Medical doctor (general) - Medical officer (general) - Resident medical officer specializing in general practice	Some related occupations classified elsewhere: - Specialist physician (internal medicine) - 2212 - Surgeon - 2212 - Psychiatrist - 2212 - Clinical officer - 2240 - Feldscher - 2240	Occupations included in this category require completion of a university-level degree in basic medical education plus postgraduate clinical training or equivalent for competent performance. Medical interns who have completed their university education in
Specialist medical practitioners	2212	Specialist medical practitioners diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments in humans, using specialized testing, diagnostic, medical, surgical, physical and psychiatric techniques, through applicatio	Tasks include - (a) conducting physical examinations of patients and interviewing them and their families to determine their health status; (b) considering medical information provided by a referring doctor or other health care provider, (c) orderi	Examples of the occupations classified here: - Anaesthetist - Cardiologist - Emergency medicine specialist - Gynaecologist - Obstetrician - Ophthalmologist - Paediatrician - Pathologist - Preventive medicine specialist - Psychiatrist - Radiolog	Some related occupations classified elsewhere: - Biomedical researcher - 2131 - General practitioner - 2211 - Dental practitioner - 2261 - Dental surgeon - 2261 - Oral and maxillofacial surgeon - 2261 - Clinical psychologist - 2634	Occupations included in this category require completion of a university-level degree in basic medical education plus postgraduate clinical training in a medical specialization (except general practise) or equivalent. Resident medical officers training as

Nursing and midwifery professionals	222	Nursing and midwifery professionals provide treatment and care services for people who are physically or mentally ill, disabled or infirm, and others in need of care due to potential risks to health including before, during and after childbirth. They ass	Tasks performed usually include: assessing, planning, providing and evaluating nursing and midwifery care for patients according to the practice and standards of modern nursing and midwifery; coordinating the care of patients in consultation with other h	Occupations in this minor group are classified into the following unit groups: 2221 Nursing professionals 2222 Midwifery professionals
Nursing professionals	2221	Nursing professionals provide treatment, support and care services for people who are in need of nursing care due to the effects of ageing, injury, illness or other physical or mental impairment, or potential risks to health. They assume responsibility f	Tasks include - (a) planning, providing and evaluating nursing care for patients according to the practice and standards of modern nursing; (b) coordinating the care of patients in consultation with other health professionals and members of health tea	Examples of the occupations classified here: - Clinical nurse - District nurse - Nurse anaesthetist - Nurse educator - Nurse practitioner - Professional Nurse - Public health nurse - Specialist nurse Some related occupations classified elsewhere: - Professional midwife - 2222 - Paramedical practitioner - 2240 - University lecturer - 2310 - Vocational education teacher - 2320 - Associate professional nurse - 3221 - Associate professional midwif The distinction between professional and associate professional nurses should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition. The qualifications held by individuals or that predominate in the

Midwifery professionals	2222	Midwifery professionals plan, manage, provide and evaluate midwifery care services before, during and after pregnancy and childbirth. They provide delivery care for reducing health risks to women and newborn children, working autonomously or in teams wi Tasks include - (a) planning, providing and evaluating care and support services for women and babies before, during and after pregnancy and childbirth according to the practice and standards of modern midwifery care; (b) providing advice to women an Examples of the occupations classified here: - Professional midwife	Some related occupations classified elsewhere: - Professional Nurse - 2221 - Associate professional nurse - 3221 - Associate professional midwife - 3222 - Nursing aide (hospital) - 5321	The distinctions between nursing and midwifery professionals and associate professionals should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition. The qualifications held by individuals or that
Traditional and complementary medicine professionals	223	Traditional and complementary medicine professionals prevent, diagnose and treat illness, disease, injury, and other physical and mental impairments and maintain general health in humans by applying knowledge, skills and practices acquired through exten Tasks performed usually include: conducting physical examinations of patients and interviewing them and their families to determine their health status; developing and implementing treatment plans for physical, mental and psychosocial ailments using app Occupations in this minor group are classified into the following unit groups: 2230 Traditional and complementary medicine professionals		
Traditional and complementary medicine professionals	2230	Traditional and complementary medicine professionals prevent, diagnose and treat illness, disease, injury, and other physical and mental impairments and maintain general health in humans by applying knowledge, skills and practices acquired through extensi Tasks include: (a) conducting physical examinations of patients and interviewing them and their families to determine their health status; (b) developing and implementing treatment plans for physical, mental and psychosocial ailments using application Examples of the occupations classified here: - Acupuncturist - Ayurvedic practitioner - Chinese herbal medicine practitioner - Homeopath - Naturopath - Unani practitioner	Some related occupations classified elsewhere: - Herbalist - 3230 - Witch doctor - 3230 - Village healer - 3230 - Scraping and cupping therapist - 3230 - Acupressure therapist - 3255 - Shiatsu therapist - 3255 - Hydrotherapist - 3255 - Chiropract	Occupations in traditional and complementary medicine whose practice requires an extensive understanding of the benefits and applications of traditional and complementary therapies, developed as the result of extended formal study of these techniques as w

Paramedical practitioners	224	Paramedical practitioners provide advisory, diagnostic, curative and preventive medical services for humans more limited in scope and complexity than those carried out by medical doctors. They work autonomously or with limited supervision of medical doctors. Tasks performed usually include: conducting physical examinations of patients and interviewing them and their families to determine their health status and recording patients' medical information; performing basic or more routine medical and surgical procedures. Occupations in this minor group are classified into the following unit groups:	2240 Paramedical practitioners
Paramedical practitioners	2240	Paramedical practitioners provide advisory, diagnostic, curative and preventive medical services for humans more limited in scope and complexity than those carried out by medical doctors. They work autonomously or with limited supervision of medical doctors. Tasks include - (a) conducting physical examinations of patients and interviewing them and their families to determine their health status, and recording patients' medical information; (b) performing basic or more routine medical and surgical procedures. - Advanced care paramedic - Clinical officer (paramedical) - Feldscher - Primary care paramedic - Surgical technician Some related occupations classified elsewhere: - General practitioner - 2211 - Surgeon - 2212 - Medical assistant - 3256 - Emergency paramedic - 3258 Occupations included in this category normally require completion of tertiary-level training in theoretical and practical medical services. Workers providing services limited to emergency treatment and ambulance practice are classified in unit group 3258,	
Veterinarians	225	Veterinarians diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialize in the treatment of a particular animal group or in a particular specialty area, or provide professional services. Tasks performed usually include: determining the presence and nature of abnormal conditions by physical examination, laboratory testing and through diagnostic imaging techniques including radiography and ultrasound; treating animals medically and surgically. Occupations in this minor group are classified into the following unit groups:	2250 Veterinarians

Veterinarians	2250	Veterinarians diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialize in the treatment of a particular animal group or in a particular specialty area, or provide professional services. Tasks include - (a) determining the presence and nature of abnormal conditions by physical examination, laboratory testing and through diagnostic imaging techniques including radiography and ultrasound; (b) treating animals medically and surgically,	Examples of the occupations classified here: - Animal pathologist - Veterinarian - Veterinary epidemiologist - Veterinary intern - Veterinary surgeon
Other health professionals	226	Other health professionals provide health services related to dentistry, pharmacy, environmental health and hygiene, occupational health and safety, physiotherapy, nutrition, hearing, speech, vision and rehabilitation therapies. This minor group includes Tasks performed may include: assessing patients or clients to determine the nature of the disorder, illness or problem; developing and implementing treatment plans and evaluating and documenting patients' progress; diagnosing and treating diseases, injuries	Occupations in this minor group are classified into the following unit groups: 2261 Dentists 2262 Pharmacists 2263 Environmental and occupational health and hygiene professionals 2264 Physiotherapists 2265 Dieticians and nutritionists 2266 Audiologist

Dentists	2261	Dentists diagnose, treat and prevent diseases, injuries and abnormalities of the teeth, mouth, jaws and associated tissues by applying the principles and procedures of modern dentistry. They use a broad range of specialized diagnostic, surgical and other	Tasks include - (a) diagnosing diseases, injuries, irregularities and malformations of teeth and associated structures in the mouth and jaw using a range of methods such as radiographs, salivary tests and medical histories; (b) providing preventative	Examples of the occupations classified here: - Dental Practitioner - Dental Surgeon - Dentist - Endodontist - Oral and Maxillofacial Surgeon - Oral Pathologist - Orthodontist - Paedodontist - Periodontist - Prosthodontist - Stomatologist	Occupations included in this category normally require completion of university-level training in theoretical and practical dentistry or a related field. Although in some countries 'stomatology' and 'dental, oral and maxillofacial surgery' may be consider
Pharmacists	2262	Pharmacists store, preserve, compound, and dispense medicinal products and counsel on the proper use and adverse effects of drugs and medicines following prescriptions issued by medical doctors and other health professionals. They contribute to researchin	Tasks include - (a) receiving prescriptions for medicinal products from medical professionals, checking patients' medicine histories, and ensuring proper dosage and methods of administration and drug compatibility before dispens	Examples of the occupations classified here: - Dispensing chemist - Hospital pharmacist - Industrial pharmacist - Retail pharmacist	Some related occupations classified elsewhere: - Pharmacologist - 2131 - Pharmaceutical technician - 3213

Environmental and occupational health and hygiene professionals	2263	Environmental and occupational health and hygiene professionals assess, plan and implement programs to recognize, monitor and control environmental factors that can potentially affect human health, to ensure safe and healthy working conditions, and to pre	Tasks include - (a) developing, implementing and reviewing programs and policies to minimize potential environmental and occupational risks to health and safety; (b) preparing and implementing plans and strategies for the safe, economic and suitable d	Examples of the occupations classified here: - Environmental Health Officer - Occupational Health and Safety Adviser - Occupational Hygienist - Radiation Protection Expert	Some related occupations classified elsewhere: - Environmental protection professional - 2133 - Specialist medical practitioner (public health) - 2212 - Specialist nurse (public health) - 2221 - Occupational therapist - 2269 - Health inspector - 3	Professionals who assess, plan and implement programmes to monitor or control the impact of human activities on the environment are classified in unit group 2133, Environmental protection professionals.
Physiotherapists	2264	Physiotherapists assess, plan and implement rehabilitative programs that improve or restore human motor functions, maximize movement ability, relieve pain syndromes, and treat or prevent physical challenges associated with injuries, diseases and other im	Tasks include - (a) administering muscle, nerve, joint and functional ability tests to identify and assess physical problems of patients; (b) establishing treatment goals with patients and designing treatment programs to reduce physical pain, strengt	Examples of the occupations classified here: - Geriatric physical therapist, - Paediatric physical therapist, - Orthopaedic physical therapist - Physiotherapist	Some related occupations classified elsewhere: - Podiatrist - 2269 - Occupational therapist - 2269 - Acupressure therapist - 3255 - Hydrotherapist - 3255 - Massage therapist - 3255 - Physiotherapy technician - 3255 - Shiatsu therapist - 3255 - Ch	

Dieticians and nutritionists

2265

- Dieticians and nutritionists assess, plan and implement programs to enhance the impact of food and nutrition on human health.
- Tasks include -
(a) instructing individuals, families and communities on nutrition, the planning of diets and preparation of food to maximize health benefits and reduce potential risks to health;
(b) planning diets and menus, supervising the preparat
- Examples of the occupations classified here:
- Clinical dietician
- Food service dietician
- Nutritionist
- Public health nutritionist
- Sports nutritionist

Audiologists and speech therapists

2266

- Audiologists and speech therapists evaluate, manage and treat physical disorders affecting human hearing, speech, communication and swallowing. They prescribe corrective devices or rehabilitative therapies for hearing loss, speech disorders, and related s
- Tasks include -
(a) evaluating hearing, speech and language performance in patients to determine the nature of hearing and communication disorders;
(b) administering hearing or speech/language tests or other examinations using specialized diagnostic
- Examples of the occupations classified here:
- Audiologist
- Language therapist
- Speech therapist
- Speech pathologist

Optometrists and ophthalmic opticians

2267

Optometrists and ophthalmic opticians provide diagnosis, management and treatment services for disorders of the eyes and visual system. They counsel on eye care and prescribe optical aids or other therapies for visual disturbance.	Tasks include - (a) examining patients' eyes and conducting diagnostic tests to assess ocular health and determine the nature and extent of vision problems and abnormalities; (b) testing visual function using specialized instruments and equipment for	Examples of the occupations classified here: - Ophthalmic Optician - Optometrist - Orthoptist	Some related occupations classified elsewhere: - Ophthalmologist - 2212 - Dispensing optician - 3254
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Health professionals not elsewhere classified

2269

This unit group covers health professionals not classified elsewhere in sub-major group 22, Health professionals. For instance, the group includes occupations such as podiatrist, occupational therapist and other health professionals.	In such cases tasks would include - (a) interviewing patients and conducting diagnostic tests to determine their health status and the nature of physical or mental disorders, illnesses or other health problems; (b) developing and implementing treat	Examples of the occupations classified here: - Arts therapist - Dance and movement therapist - Occupational therapist - Podiatrist - Recreational therapist
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Teaching professionals	23	Teaching professionals teach the theory and practice of one or more disciplines at different educational levels, conduct research and improve or develop concepts, theories and operational methods pertaining to their particular discipline, and prepare s	Tasks performed by workers in this sub-major group usually include: conducting classes, courses, or tutorials at a particular educational level, for educational and vocational purposes, including private lessons; conducting adult literacy programmes; t	Occupations in this sub-major group are classified into the following minor groups: 231 University and higher education teachers 232 Vocational education teachers 233 Secondary education teachers 234 Primary school and early childhood teachers
University and higher education teachers	231	University and higher education teachers prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research, and prepare scholarly	Tasks performed usually include: designing and modifying curricula and preparing courses of study in accordance with requirements; preparing and delivering lectures and conducting tutorials, seminars and laboratory experiments; stimulating discussion and	Occupations in this minor group are classified into the following unit groups: 2310 University and higher education teachers
University and higher education teachers	2310	University and higher education teachers prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research, and prepare scholarly	Tasks include - (a) designing and modifying curricula and preparing courses of study in accordance with requirements; (b) preparing and delivering lectures and conducting tutorials, seminars and laboratory experiments; (c) stimulating discussion and i	Examples of the occupations classified here: - Higher education lecturer - Professor - University Lecturer - University Tutor Some related occupations classified elsewhere: - University chancellor- 1120 - Dean - 1345 - Higher education faculty head- 1345 - Vocational education teacher – 2320
Vocational education teachers	232	Vocational education teachers teach or instruct vocational or occupational subjects in adult and further education institutions and to senior students in secondary schools and colleges. They prepare students for employment in specific occupations or occu	Tasks performed usually include: developing curricula and planning course content and methods of instruction; determining training needs of students or workers and liaising with individuals, industry and other education sectors to ensure provision of rel	Occupations in this minor group are classified into the following unit groups: 2320 Vocational education teachers

Vocational education teachers	2320	Vocational education teachers teach or instruct vocational or occupational subjects in adult and further education institutions and to senior students in secondary schools and colleges. They prepare students for employment in specific occupations or occu	Tasks include - (a) developing curricula and planning course content and methods of instruction; (b) determining training needs of students or workers and liaising with individuals, industry and other education sectors to ensure provision of relevant e	Examples of the occupations classified here: - Automotive technology instructor - Cosmetology instructor - Vocational education teacher	Some related occupations classified elsewhere: - Secondary education teacher - 2330
Secondary education teachers	233	Secondary education teachers teach one or more subjects at secondary education level, excluding subjects intended to prepare students for employment in specific occupational areas.	Tasks performed usually include: designing and modifying curricula and preparing educational courses of study in accordance with curriculum guidelines; establishing and enforcing rules for behavior and procedures for maintaining order among students; pre	Occupations in this minor group are classified into the following unit groups: Secondary education teachers	
Secondary education teachers	2330	Secondary education teachers teach one or more subjects at secondary education level, excluding subjects intended to prepare students for employment in specific occupational areas.	Tasks include - (a) designing and modifying curricula and preparing educational courses of study in accordance with curriculum guidelines; (b) establishing and enforcing rules for behavior and procedures for maintaining order among students; (c) prepa	Examples of the occupations classified here: - Secondary education teacher - High school teacher	Some related occupations classified elsewhere: - Head teacher - 1345 - Vocational education teacher - 2330 - Schools inspector - 2352

Primary school and early childhood teachers	234	Primary school and early childhood teachers teach a range of subjects at the primary level of education and organize educational activities for children below primary school age. tasks performed usually include: preparing programme of learning and giving instruction in a range of subjects at the primary education level, planning and organising activities designed to facilitate children's development of Occupations in this minor group are classified into the following unit groups: 2341 Primary school teachers 2342 Early childhood educators
Primary school teachers	2341	Primary school teachers teach a range of subjects at the primary education level. Tasks include - (a) preparing daily and longer term lesson plans in accordance with curriculum guidelines; (b) instructing children individually and in groups, using various teaching methods and materials (e.g. computers, books, games), adapting to Examples of the occupations classified here: - Primary school teacher Some related occupations classified elsewhere: - Head teacher - 1345 - Schools inspector- 2351
Early childhood educators	2342	Early childhood educators promote the social, physical, and intellectual development of children below primary school age through the provision of educational and play activities Tasks include - (a) planning and organizing individual and group activities designed to facilitate the development of children's motor skills, cooperative and social skills, confidence and understanding; (b) promoting language development through story Examples of the occupations classified here: - Early childhood educator - Pre-school teacher Some related occupations classified elsewhere: - Child care centre manager - 1341

Other teaching professionals	235	Other teaching professionals conduct research and advise on teaching methods, teach people with learning difficulties or special needs; teach non-native languages for migration and related purposes; give private tuition; teach arts, information technology	Tasks performed usually include: conducting research and developing or advising on teaching methods, courses and aids; teaching physically handicapped children, young persons or adults or those with learning difficulties or other with special needs, teach	Occupations in this minor group are classified into the following unit groups: 2351 Education methods specialists 2352 Special needs teachers 2353 Other language teachers 2354 Other music teachers 2355 Other arts teachers 2356 Information technolog
Education methods specialists	2351	Education methods specialists conduct research and develop or advise on teaching methods, courses and aids. They review and examine teachers' work, the functioning of educational institutions and the results achieved and recommend changes and improvement	Tasks include - (a) researching into current developments in curricula, teaching methods and other educational practices, and advising on necessary changes and possible improvements; (b) evaluating and advising on contents of courses and methods of exa	Examples of the occupations classified here: - Curriculum coordinator - Curriculum developer - Education methods specialist - Teaching aids specialist - School inspector Some related occupations classified elsewhere: - Educational psychologist – 2634 - School counsellor – 2359 - Student advisor - 2359

Special needs teachers	2352	Special needs teachers teach physically or mentally handicapped children, young persons, or adults, or those with learning difficulties or other special needs. They promote the social, emotional, intellectual and physical development of their students. Tasks include - (a) assessing students' abilities and limitations with regard to intellectual, physical, social and emotional impairments, exceptional intellectual gifts, or other specific problems; (b) designing or modifying curricula and preparing a	Examples of the occupations classified here: - Learning Disabilities Special Education Teacher - Learning support teacher - Remedial teacher - Teacher of gifted children - Teacher of the hearing impaired - Teacher of the sight impaired	Some related occupations classified elsewhere: - Vocational education teacher - 2320 - Secondary school teacher - 2330 - Primary school teacher - 2341
Other language teachers	2353	Other language teachers teach non-native languages to adults and children who are learning a language for reasons of migration, to fulfil employment requirements or opportunities, to facilitate participation in educational programmes delivered in a forei Tasks include - (a) assessing the level of ability and the extent of language difficulties of students, and establishing students' needs and learning goals; (b) planning, preparing and delivering lessons and workshops for groups and individuals with c	Examples of the occupations classified here: - Intensive language teacher - Migrant education teacher - Practical language teacher - Second language teacher	Some related occupations classified elsewhere: - University lecturer - 2310 - Vocational education teacher – 2320 - Secondary school teacher - 2330 - Primary school teacher - 2341

Other music teachers	2354	Other music teachers teach students in the practice, theory and performance of music outside the mainstream primary, secondary and higher education systems, but may provide private or small group tuition as an extra curricular activity in association with	Tasks include - (a) assessing the students' level of ability and determining needs and learning goals; (b) planning, preparing and delivering programs of study, lessons and workshops for individual students and groups; (c) preparing and presenting material	Examples of the occupations classified here: - Guitar teacher (private tuition) - Piano teacher (private tuition) - Singing teacher (private tuition) - Violin teacher (private tuition)	Some related occupations classified elsewhere: - University lecturer - 2310 - Vocational education teacher - 2320 - Secondary school teacher - 2330 - Primary school teacher - 2341
Other arts teachers	2355	Other arts teachers teach students in the practice, theory and performance of dance, drama, visual and other arts (excluding music) outside the mainstream primary, secondary and higher education systems, but may provide private or small group tuition as	Tasks include - (a) assessing the students' level of ability and determining learning needs; (b) planning, preparing and delivering programs of study, lessons and workshops for individual students and groups; (c) preparing and presenting material on	Examples of the occupations classified here: - Dance teacher (private tuition) - Drama teacher (private tuition) - Painting teacher (private tuition) - Sculpture teacher (private tuition)	Some related occupations classified elsewhere: - University lecturer - 2310 - Vocational education teacher - 2320 - Secondary school teacher - 2330 - Primary school teacher - 2341 - Private music teacher - 2354
Information technology trainers	2356	Information technology trainers develop, schedule and conduct training programs and courses for computer and other information technology users outside the mainstream primary, secondary and higher education systems.	Tasks include - (a) identifying the information technology training needs and requirements of individual users and organizations; (b) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, d	Examples of the occupations classified here: - Computer trainer - Software trainer	- University lecturer - 2310 - Vocational education teacher - 2320 - Secondary school teacher - 2330 - Primary school teacher - 2341 - Staff development officer - 2424

Teaching professionals not elsewhere classified	2359	This unit group covers teaching professionals not classified elsewhere in Sub major group 23, Teaching professionals. For instance, the group includes those who provide private tuition in subjects other than foreign languages and the arts, and those who	In such cases tasks performed would include - (a) assessing students' level of ability and determining learning needs; (b) planning, preparing and delivering programs of study, lessons and workshops for individual students and groups; (c) preparing a	Examples of the occupations classified here: - Literacy tutor (private tuition) - Mathematics coach (private tuition) - School counsellor	Some related occupations classified elsewhere: - University lecturer - 2310 - Vocational education teacher - 2320 - Secondary school teacher - 2330 - Primary school teacher - 2341 - Intensive language teacher - 2353 - Migrant education teacher - 2353 - Music teacher (p
Business and administration professionals	24	Business and administration professionals perform analytical, conceptual and practical tasks to provide services in financial matters, human resource development, public relations and marketing, sales in the technical, medical, information and communicati	Tasks performed by workers in this sub-major group usually include: collecting, analyzing and interpreting information on the financial viability, cost structures and trading effectiveness of organizations; conducting audits, preparing financial statement	Occupations in this sub-major group are classified into the following minor groups: 241 Finance professionals 242 Administration professionals 243 Sales, marketing and public relations professionals	
Finance professionals	241	Finance professionals plan, develop, organize, administer, invest, manage and conduct quantitative analyses of either financial accounting systems or funds for individuals, establishments and public or private institutions.	preparing and organizing financial statements for an organization; reviewing financial materials of an organization; providing financial advice to individuals and organizations; preparing analytic reports concerning segmen	Occupations in this minor group are classified into the following unit groups: 2411 Accountants 2412 Financial and investment advisers 2413 Financial analysts	
Accountants	2411	Accountants plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance	(a) advising on, planning and installing budgetary, accounts controlling and other accounting policies and systems; (b) preparing and certifying financial statements for presentation to management, shareholders and statutory or other bodies; (c) prepar	Examples of the occupations classified here: - Accountant - Auditor - Chartered accountant - Certified accountant - Financial controller - Management accountant - Tax accountant	Some related occupations classified elsewhere: - Finance manager - 1211 - Accounting assistant - 3313 - Bookkeeper - 3313

Financial and investment advisers	2412	(a) building and maintaining a client base; (b) interviewing clients to determine financial status and objectives, risk tolerance and other information needed to develop financial plans and investment strategies; (c) setting financial objectives, and Financial and investment advisers develop financial plans for individuals and organizations, and invest and manage funds on their behalf.	Examples of the occupations classified here: - Estate planner - Financial planner
Financial analysts	2413	(a) analyzing financial information to produce forecasts of business, industry, and economic conditions for use in making investment decisions; (b) maintaining knowledge and staying abreast of developments in the fields of industrial technology, business Financial analysts conduct quantitative analyses of information affecting investment programs of public or private institutions. Tasks performed usually include: evaluating the structure of organizations and suggesting areas of improvement; ensuring that the operational activities of an organization are consistent with the policy objectives of the organization; recruiting, training	Examples of the occupations classified here: - Bond analyst - Investment consultant - Securities consultant Occupations in this minor group are classified into the following unit groups: 2421 Management and organization analysts 2422 Policy administration professionals 2423 Personnel and careers professionals
Administration professionals	242	Administration professionals apply various concepts and theories related to improving the effectiveness of organizations and the individuals within the organization.	

Management and organization analysts	2421	Management and organization analysts assist organizations to achieve greater efficiency and solve organizational problems. They study organizational structures, methods, systems and procedures.	(a) assisting and encouraging the development of objectives, strategies and plans aimed at achieving customer satisfaction and the efficient use of organizations' resources; (b) analyzing and evaluating current systems and structures; (c) discussing	Examples of the occupations classified here: - Organization and methods analyst - Business consultant - Management consultant Some related occupations classified elsewhere: ICT Business Analysts - 2511
Policy administration professionals	2422	Policy administration professionals develop and analyze policies guiding the design, implementation and modification of government and commercial operations and programs.	(a) liaising and consulting with program administrators and other interested parties to identify policy needs; (b) reviewing existing policies and legislation to identify anomalies and out-of-date provisions; (c) researching social, economic and industrial	Examples of the occupations classified here: - Policy analyst - Intelligence officer
Personnel and careers professionals	2423	Personnel and careers professionals provide professional business services related to personnel policies such as employee recruitment or development, occupational analyzes and vocational guidance.	(a) advising on and performing personnel functions relating to employee recruitment, placement, training, promotion, compensation, and employee-management relations or other areas of personnel policy; (b) studying and analyzing jobs performed in an establishment	Examples of the occupations classified here: - Careers adviser, - Job analyst - Occupational analyst - Vocational guidance counsellor - Human resource expert - Outplacement expert

Training and staff development professionals	2424	Tasks include - (a) identifying training needs and requirements of individuals and organizations; (b) setting human resource development objectives and evaluating learning outcomes; (c) preparing and developing instructional training material and a	Examples of the occupations classified here: - Training officer - Workforce development specialist
Sales, marketing and public relations professionals	243	Sales, marketing and public relations professionals plan, develop, coordinate and implement programs of information dissemination to promote organizations, goods and services, and represent companies in selling a range of technical, industrial, medical,	Tasks performed usually include: commissioning and undertaking market research, analyzing the findings, and planning advertising marketing and public relations activities; supporting business growth and development through the preparation and execution of Occupations in this minor group are classified into the following unit groups: 2431 Advertising and marketing professionals 2432 Public relations professionals 2433 Technical and medical sales professionals (excluding ICT) 2434 Information and commu
Advertising and marketing professionals	2431	Advertising and marketing professionals develop and coordinate advertising strategies and campaigns, determine the market for new goods and services, and identify and develop market opportunities for new and existing goods and services.	Tasks include - (a) planning, developing and organizing advertising policies and campaigns to support sales objectives; (b) advising managers and clients on strategies and campaigns to reach target markets, creating consumer awareness and effectively Examples of the occupations classified here: - Advertising specialist - Market research analyst - Marketing specialist

Public relations professionals	2432	Public relations professionals plan, develop, implement and evaluate information and communication strategies that create an understanding and a favourable view of businesses and other organizations, their goods and services, and their role in the commu Tasks include - (a) planning and organizing publicity campaigns and communication strategies; (b) advising executives on the public relations implications of their policies, programs and practices preparing and controlling the issue of news and press - Public relations officer Examples of the occupations classified here:	
Technical and medical sales professionals (excluding ICT)	2433	Technical and medical sales professionals (excluding ICT) represent companies in selling a range of industrial, medical and pharmaceutical goods and services to industrial, business, professional and other establishments. Tasks include - (a) compiling lists of prospective client businesses using directories and other sources; (b) acquiring and updating knowledge of employers' and competitors' goods and services, and market conditions; (c) visiting regular and prosp Examples of the occupations classified here: - Sales representative (industrial products) - Sales representative (medical and pharmaceutical products) - Technical sales representative Some related occupations classified elsewhere: Commercial sales representative - 3322 Information and communications technology sales representative - 2434	
Information and communications technology sales professionals	2434	Information and communications technology (ICT) sales professionals sell, at the wholesale level, a range of computer hardware, software and other information and communications technology goods and services including installations and provide specialized Tasks include - (a) soliciting orders and selling goods to retail, industrial, wholesale and other establishments; (b) selling technical equipment, supplies and related services to business establishments or individuals; (c) discussing the needs of n Some related occupations classified elsewhere: Shop sales assistant - 5223	

Information and communications technology professionals	25	Information and communications technology professionals conduct research, plan, design, write, test, provide advice and improve information technology systems, hardware, software and related concepts for specific applications; develop associated documents	Tasks performed usually include: researching information technology use in business functions; identifying areas for improvement and researching the theoretical aspects and operational methods for the use of computers; evaluating, planning and designing h	Occupations in this sub-major group are classified into the following minor groups: 251 Software and applications developers and analysts 252 Database and network professionals
Software and applications developers and analysts	251	Software and applications developers and analysts conduct research, plan, design, write, test, provide advice on and improve information technology systems, such as hardware, software and other applications to meet specific requirements.	Tasks performed usually include: researching information technology use in business functions and identifying areas in which improvements could be made to maximise effectiveness and efficiency; conducting research into the theoretical aspects of and oper	Occupations in this minor group are classified into the following unit groups: 2511 Systems analysts 2512 Software developers 2513 Web and multimedia developers 2514 Applications programmers 2519 Software and applications developers and analysts no
Systems analysts	2511	Systems analysts conduct research, analyze and evaluate client information technology requirements, procedures or problems, and develop and implement proposals, recommendations, and plans to improve current or future information systems.	Tasks include - (a) consulting with users to formulate and document requirements and with management to ensure agreement on systems principles; (b) identifying and analyzing business processes, procedures and work practices; (c) identifying and evalua	Examples of the occupations classified here: - Business analyst (IT) - Communications analyst (computers) - Systems consultant - Systems designer (IT) - Computer scientist Some related occupations classified elsewhere: - Communications analyst (computers) - 2523 - Network analyst - 2523 - Systems administrator - 2522
Software developers	2512	Software developers research, analyze and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet these requirements.	Tasks include - (a) researching, analyzing and evaluating requirements for software applications and operating systems; (b) researching, designing, and developing computer software systems; (c) consulting with engineering staff to evaluate interface b	Examples of the occupations classified here: - Programmer analyst - Software designer - Software developer - Software engineer Some related occupations classified elsewhere: - Applications programmer - 2514

Web and multimedia developers	2513	Web and multimedia development professionals combine design and technical knowledge to research, analyze, evaluate, design, programme and modify websites, and applications that draw together text, graphics animations, imaging, audio and video displays, a	Tasks include - (a) analyzing, designing and developing Internet sites applying a mixture of artistry and creativity with software programming and scripting languages and interfacing with operating environments; (b) designing and developing digital an	Examples of the occupations classified here: - Animation programmer - Computer games programmer - Internet developer - Multimedia programmer - Website architect - Website developer	Some related occupations classified elsewhere: - Website designer - 2166 - Webmaster - 3514 - Website administrator - 3514 - Website technician - 3514
Applications programmers	2514	Applications programmers write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.	Tasks include - (a) writing and maintaining program code outlined in instructions and specifications in accordance with quality accredited standards; (b) revising, repairing or expanding existing programs to increase operating efficiency or adapt to new	Examples of the occupations classified here: - Applications programmer	Some related occupations classified elsewhere: - Multimedia programmer - 2513 - Programmer analyst - 2512 - Software developer - 2512
Software and applications developers and analysts not elsewhere classified	2519	This unit group covers software and applications developers and analysts not classified elsewhere in minor group 251. Software and applications developers and analysts. For instance the group includes those professionals specialising in quality assurance	Tasks include - (a) developing and documenting software testing plans; (b) installing software and hardware and configuring operating system software in preparation for testing; (c) verifying that programmes function according to user requirements a	Examples of the occupations classified here: - Quality assurance analyst (computers) - Software tester - Systems tester	
Database and network professionals	252	Database and network professionals design, develop, control, maintain and support the optimal performance and security of information technology systems and infrastructure, including databases, hardware and software, networks and operating systems.	Tasks performed usually include: designing and developing database architecture, data structures, dictionaries and naming conventions for information systems projects; designing, constructing, modifying, integrating, implementing and testing database man	Occupations in this minor group are classified into the following unit groups: 2521 Database designers and administrators 2522 Systems administrators 2523 Computer network professionals 2529 Database and network professionals not elsewhere classified	

Database designers and administrators	2521	Database designers and administrators design, develop, control, maintain and support the optimal performance and security of databases.	Tasks include - (a) designing and developing database architecture, data structures, tables, dictionaries and naming conventions for information systems projects; (b) designing, constructing, modifying, integrating, implementing and testing database ma	Examples of the occupations classified here: - Data administrator - Database administrator - Database analyst - Database architect	Some related occupations classified elsewhere: - Systems administrator (computers) - 2522 - Network administrator - 2522 - Website administrator - 3514 - Webmaster - 3514
Systems administrators	2522	Systems administrators develop, control, maintain and support the optimal performance and security of information technology systems	Tasks include - (a) maintaining and administering computer networks and related computing environments including computer hardware, systems software, applications software and all configurations; (b) recommending changes to improve systems and network	Examples of the occupations classified here: - Systems administrator - Network administrator	Some related occupations classified elsewhere: - Database administrator - 2521 - Network analyst - 2523 - Website administrator - 3514 - Website technician - 3514 - Webmaster - 3514
Computer network professionals	2523	Computer network professionals research, analyze and recommend strategies for network architecture and development, implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimise performance.	Tasks include - (a) analyzing, developing, interpreting and evaluating complex system design and architecture specifications, data models and diagrams in the development, configuration and integration of computer systems; (b) researching, analyzing, ev	- Communications analyst (computers) - Network analyst	Some related occupations classified elsewhere: - Systems analyst - 2511 - Network administrator - 2522

Database and network professionals not elsewhere classified	2529	Tasks include - (a) developing plans to safeguard computer files against accidental or unauthorized modification, destruction, or disclosure and to meet emergency data processing needs; (b) training users and promoting security awareness to ensure system security. This unit group covers database and network professionals elsewhere in Minor group 252, Database and network professionals. For instance, the group includes information and communications technology security specialists.	Examples of the occupations classified here: - Digital forensic specialist - Security specialist (ICT)
Legal, social and cultural professionals	26	Legal, social and cultural professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to the law, storage and retrieval of information and artefacts, psychology, social welfare, politics, etc. Tasks performed by workers in this sub-major group usually include: conducting research on legal problems; drafting laws and regulations; advising clients on legal cases; pleading and conducting cases in a court of law; presiding over judicial proceedings	Occupations in this sub-major group are classified into the following minor groups: 261 Legal professionals 262 Librarians, archivists and curators 263 Social and religious professionals 264 Authors, journalists and linguists 265 Creative and performing
Legal professionals	261	Legal professionals conduct research on legal problems, advise clients on legal aspects of problems, plead cases or conduct prosecutions in courts of law, preside over judicial proceedings in courts of law, and draft laws and regulations Tasks performed usually include: giving clients legal advice, undertaking legal business on clients' behalf, and conducting litigation when necessary, or presiding over judicial proceedings- and pronouncing judgement in courts of law. Supervision of other	Occupations in this minor group are classified into the following unit groups: 2611 Lawyers 2612 Judges 2619 Legal professionals not elsewhere classified
Lawyers	2611	Tasks include - (a) giving clients legal advice on a wide variety of subjects and undertaking legal business on clients' behalf; (b) researching legal principles, statutes and previous court decisions related to specific cases; (c) gathering evidence Lawyers give clients legal advice on a wide variety of subjects, draw up legal documents, represent clients before administrative boards or tribunals and plead cases or conduct prosecutions in courts of justice, or instruct barristers to plead in higher	Examples of the occupations classified here: - Attorney - Barrister - Lawyer - Prosecutor - Solicitor Some related occupations classified elsewhere: - Notary - 2619 - Conveyancing clerk - 3411 - Law clerk - 3411

Judges	2612	Judges preside over civil and criminal proceedings in courts of law. Tasks include - (a) presiding over trials and hearings; (b) interpreting and enforcing rules of procedure and making rulings regarding the admissibility of evidence; (c) determining the rights and obligations of the parties involved, and, in cases tri	Examples of the occupations classified here: - Chief justice - Judge - Magistrate	Some related occupations classified elsewhere: - Court clerk - 3411 - Justice of the Peace - 3411
Legal professionals not elsewhere classified	2619	This unit group covers legal professionals not classified elsewhere in Minor group 261. Legal professionals. For instance, the group includes those who perform legal functions other than pleading or prosecuting cases or presiding over judicial proceedi Tasks include: (a) giving advice on legal aspects of various personal, business and administrative problems; (b) drawing up legal documents and contracts; (c) arranging property transfers; (d) determining, by inquest, the	Examples of the occupations classified here: - Coroner - Jurist (except lawyer or judge) - Notary	
Librarians, archivists and curators	262	Librarians, archivists and curators develop and maintain the collections of archives, libraries, museums, art galleries, and similar establishments. Tasks performed usually include: appraising or developing and organizing the contents of archives and artefacts of historical, cultural and artistic interest, and ensuring their safe keeping and preservation; organizing the collections of and exhibitions	Occupations in this minor group are classified into the following unit groups: 2621 Archivists and curators 2622 Librarians and related information professionals	
Archivists and curators	2621	Archivists and curators collect, appraise and ensure the safekeeping and preservation of the contents of archives, artefacts and records of historical, cultural, administrative and artistic interest, and of art and other objects. They plan, devise and im Tasks include: (a) evaluating and preserving records for administrative, historical, legal, evidential and other purposes; (b) directing or carrying out the preparation of indexes, bibliographies, microfilm copies and other reference aids to the colle	Examples of the occupations classified here: - Archivist - Art gallery curator - Museum curator - Records manager	

Librarians and related information professionals
Social and religious professionals

2622

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Librarians and related information professionals collect, select, develop, organize and maintain library collections and other information repositories, organize and control other library services and provide information for users.

Social and related professionals conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to philosophy, politics, economics, sociology, anthropology, history, philology, languages, psychology, and ot

Tasks include:
 (a) organizing, developing and maintaining a systematic collection of books, periodicals and other printed, audio-visually and digitally recorded material;
 (b) selecting and recommending acquisitions of books and other printed or audio-v

Tasks performed usually include: formulating and applying solutions to present or projected economic, political or social problems; researching into and analyzing past events and activities and tracing the origin and evolution of the human race; studyi

Examples of the occupations classified here:
 - Bibliographer
 - Cataloguer
 - Librarian

Occupations in this minor group are classified into the following unit groups:

- 2631 Economists
- 2632 Sociologists, anthropologists and related professionals
- 2633 Philosophers, historians and political scientists
- 2634 Psychologists
- 2635 Social work a

Economists	2631	Economists conduct research, monitor data, analyze information and prepare reports and plans to resolve economic and business problems and develop models to analyze, explain and forecast economic behaviour and patterns. They provide advice to business, i	Tasks include - (a) forecasting changes in the economic environment for short-term budgeting, long-term planning and investment evaluation; (b) formulating recommendations, policies and plans for the economy, corporate strategies and investment, and u	Examples of the occupations classified here: - Econometrician - Economic adviser - Economic analyst - Economist - Labour economist	Some related occupations classified elsewhere: - Statistician - 2120
Sociologists, anthropologists and related professionals	2632	Sociologists, anthropologists and related professionals investigate and describe the structure of societies, the origin and evolution of societies, and the interdependence between environmental conditions and human activities. They provide advice on the	Tasks include - (a) conducting research on the origin, development, structure, social patterns, organizations and inter-relationships of human society; (b) tracing the origin and evolution of humanity through the study of changing characteristics and c	Examples of the occupations classified here: - Anthropologist - Archaeologist - Ethnologist - Geographer - Sociologist	

Philosophers, historians and political scientists	2633

Philosophers, historians and political scientists conduct research into the nature of human experience and existence, phases or aspects of human history, and political structures, movements and behaviour. They document and report on findings to inform and

Tasks include -
(a) researching, mostly by reasoning, into the general causes, principles and meanings of the world, human actions, experience and existence, and interpreting and developing philosophical concepts and theories;
(b) consulting and compar

Examples of the occupations classified here:
- Genealogist
- Historian
- Philosopher
- Political scientist

Some related occupations classified elsewhere:
- Political adviser - 2422

Psychologists	2634

Psychologists research into and study the mental processes and behaviour of human beings as individuals or in groups, and apply this knowledge to promote personal, social, educational or occupational adjustment and development.

Tasks include -
(a) planning and carrying out tests to measure mental, physical and other characteristics such as intelligence, abilities, aptitudes, potentialities, etc., interpreting and evaluating results, and providing advice;
(b) analyzing the ef

Examples of the occupations classified here:
- Clinical Psychologist
- Educational Psychologist
- Organizational Psychologist
- Psychotherapist
- Sports psychologist

Some related occupations classified elsewhere:
- Psychiatrist - 2212

Social work and counselling professionals	2635	Social work and counselling professionals provide advice and guidance to individuals, families, groups, communities and organizations in response to social and personal difficulties. They assist clients to develop skills and access resources and support	Tasks include - (a) interviewing clients individually, in families, or in groups, to assess their situation and problems and determine the types of services required; (b) analyzing the client's situation and presenting alternative approaches to resol	Examples of the occupations classified here: - Addictions counsellor - Bereavement counsellor - Child and youth counsellor - Family counsellor - Marriage counsellor - Parrole officer - Probation officer - Social worker - Women's welfare organizer	Some related occupations classified elsewhere: - Welfare worker - 3412	
Religious professionals	2636	Religious professionals function as perpetrators of sacred traditions, practices and beliefs. They conduct religious services, celebrate or administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other	(a) perpetuating sacred traditions, practices and beliefs; (b) conducting religious services, rites and ceremonies; (c) undertaking various administrative and social duties, including participating in committees and meetings of religious organizations Tasks performed usually include: writing literary works; appraising merits of literary and other works of art; collecting information about current affairs and writing about them;	Examples of the occupations classified here: - Bonze - Imam - Minister, religion - Poojari - Priest - Rabbi Occupations in this minor group are classified into the following unit groups: 2641 Authors and related writers 2642 Journalists 2643 Translators, interpreters and other linguists	Some related occupations classified elsewhere: - Lay preacher - 3413 - Monk - 3413 - Nun - 3413	Members of religious orders whose work involves performing the tasks of other occupations, for example as teachers, nurses or welfare support workers, should be classified according to the main tasks and duties performed in the job.
Authors, journalists and linguists	264	Authors, journalists and linguists conceive and create literary works, interpret and communicate news and public affairs through the media and translate or interpret from one language into another.	researching, investigating, interpreting and communicating news and public			

Authors and related writers	2641	Authors and related writers plan, research and write books, scripts, storyboards, plays, essays, speeches, manuals, specifications and other non-journalistic articles (excluding material for newspapers, magazines and other periodicals) for publication or	Tasks include: (a) conceiving, writing and editing novels, plays, scripts, poetry and other material for publication or presentation; (b) conducting research to establish factual content and to obtain other necessary information; (c) writing scripts a	Examples of the occupations classified here: - Author - Book editor - Essayist - Interactive media writer - Novelist - Playwright - Poet - Script writer - Speech writer - Technical writer - Writer Some related occupations classified elsewhere: - Advertising copy writer - 2431 - Public relations copy writer - 2432 - Journalist - 2642 - Newspaper editor- 2642
Journalists	2642	Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media.	Tasks include: (a) collecting local, national and international news through interviews, investigation and observation, attending public events, seeking out records, reviewing written work, attending film and stage performances; (b) collecting, report	Examples of the occupations classified here: - Journalist - Copy editor - Newspaper editor - Newspaper reporter - Sports writer - Sub editor - TV / radio news reporter, Some related occupations classified elsewhere: - Public relations officer- 2432 - Book author - 2641 - Book editor – 2641 - Photo journalist - 3431 - Camera operator – 3521

Translators, interpreters and other linguists	2643	Translators, interpreters and other linguists translate or interpret from one language into another and study the origin, development and structure of languages.	Tasks include: (a) studying relationships between ancient parent languages and modern language groups, tracing the origin and evolution of words, grammar and language forms, and presenting findings; (b) advising on or preparing language classificatio	Examples of the occupations classified here: - Interpreter - Lexicographer - Philologist - Sign language interpreter - Subtitler - Translator - Translator-reviser	Some related occupations classified elsewhere: - Author - 2641 - Book editor - 2641 - Journalist - 2642
Creative and performing artists	265	Creative and performing artists communicate ideas, impressions and facts in a wide range of media to achieve particular effects; interpret a composition such as a musical score or a script to perform or direct the performance; and host the presentation o	Tasks performed usually include: conceiving and creating visual art forms; conceiving and writing original forms in music; devising, directing, rehearsing and performing in music, dance, theatrical and film productions; assuming creative, financial and organizational	Occupations in this minor group are classified into the following unit groups: 2651 Visual artist 2652 Musicians, singers and composers 2653 Dancers and choreographers 2654 Film, stage and related directors and producers 2655 Actors 2656 Announcer	
Visual artists	2651	Visual artists create and execute works of art by sculpting, painting, drawing, creating cartoons, engraving or using other techniques.	Tasks include - (a) conceiving and developing ideas, designs and styles for paintings, drawings and sculptures; (b) arranging objects, positioning models, and selecting landscapes and other visual forms according to chosen subject matter; (c) selectin	Examples of the occupations classified here: - Cartoonist - Ceramic artist - Commercial artist - Picture restorer - Portrait painter - Sculptor	Some related occupations classified elsewhere: - Handicraft workers - 731 - Industrial designer – 2163 - Graphic designer - 2166 - Painting teacher (private tuition) – 2355

Musicians, singers and composers	2652	Musicians, singers and composers write, arrange, conduct and perform musical compositions. Tasks include - (a) creating melodic, harmonic and rhythmic structures to express ideas and emotions in musical form; (b) translating ideas and concepts into standard musical signs and symbols for reproduction and performance; (c) adapting or arrangin	Examples of the occupations classified here: - Band leader - Composer - Instrumentalist - Music conductor - Night club musician - Night club singer - Orchestrator - Singer - Street musician - Street singer	
Dancers and choreographers	2653	Dancers and choreographers conceive and create or perform dances. Tasks include - (a) conceiving and creating dances, which often convey a story, theme, idea or mood, by a pattern of steps, movements and gestures; (b) performing dances as a soloist, with a partner or as a member of a dancing group before live audie	Examples of the occupations classified here: - Choreographer - Ballet Dancer - Night-club dancer - Street dancer	Some related occupations classified elsewhere: - Dance teacher - 2355
Film, stage and related directors and producers	2654	Film, stage and related directors and producers oversee and control the technical and artistic aspects of motion pictures, television or radio productions and stage shows. Tasks include - (a) choosing writers, studying scripts to determine artistic interpretation, and instructing actors on acting methods; (b) directing all aspects of dramatic productions on stage, television, radio or in motion pictures, including choice	Examples of the occupations classified here: - Documentary director - Film editor - Motion picture director - Director of photography - Stage director - Technical director - Technical television or radio director - Theatre producer	Some related occupations classified elsewhere: - TV news producer - 2642 - Broadcasting technician - 3521 - Sound technician - 3521 - Video technician - 3521 - Stage manager - 3435
Actors	2655	Actors portray roles in motion pictures, television or radio productions and stage shows. Tasks include - (a) learning lines and cues and playing parts in dramatic productions on stage, commercials, television, radio or in motion pictures; (b) assuming characters created by a playwright or author and communicating this to an audience; (c)	Examples of the occupations classified here: - Actor - Mime artist - Story-teller	Some related occupations classified elsewhere: - Stunt artist - 3435 - Walker-on - 3435

Announcers on radio, television and other media	2656	Announcers on radio, television and other media read news bulletins, conduct interviews, and make other announcements or introductions on radio, television, and in theatres and other establishments or media	Tasks include - (a) reading news bulletins and making other announcements on radio or television; (b) introducing performing artists or persons being interviewed, and making related announcements on radio, television, or in theatres, night-clubs and o	Examples of the occupations classified here: - Radio announcer - Television announcer - News anchor - Sports announcer	Some related occupations classified elsewhere: Journalist- 2642
Creative and performing artists not elsewhere classified	2659	This unit group covers all creative and performing artists not classified elsewhere in minor group 265, Creative and performing artists. For instance, the group includes clowns, magicians, acrobats and other performing artists.	In such cases tasks would include: (a) performing amusing antics and telling funny stories; (b) performing tricks of illusion and sleight of hand, and feats of hypnotism; (c) performing difficult and spectacular acrobatics, and gymnastic or juggling	Examples of the occupations classified here: - Acrobat - Aerialist - Clown - Hypnotist - Magician - Puppeteer - Stand-up comedian - Ventriloquist Occupations in this major group are classified into the following sub-major groups:	
Technicians and associate professionals	3	Technicians and associate professionals perform mostly technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations. Most occupations in thi	Tasks performed by technicians and associate professionals usually include: undertaking and carrying out technical work connected with research and the application of concepts and operational methods in the fields of physical sciences including engineer	31 Science and engineering associate professionals 32 Health associate professionals 33 Business and administration associate professionals 34 Legal, social, cultural and Occupations in this sub-major group are classified into the following minor groups:	
Science and engineering associate professionals	31	Science and engineering associate professionals perform technical tasks connected with research and and operational methods in science and engineering. They supervise and control technical and operational aspects of mining, manufacturing, construction an	Tasks performed by workers in this sub-major group usually include: setting up, , monitoring and operating nstruments and equipment, conducting and monitoring experiments and tests of systems; collecting and testing samples; recording observations and an	311 Physical and engineering science technicians 312 Mining, manufacturing and construction supervisors 313 Process Control Technicians 314 Life science technicians and	
Physical and engineering science technicians	311	Physical and engineering science technicians perform technical tasks to aid in research on and the practical application of concepts, principles and operational methods particular to physical sciences including such areas as engineering, technical drawin	Tasks performed usually include: undertaking and carrying out technical work related to chemistry, physics, geology, meteorology, astronomy, engineering, or technical drawing; setting up, operating, and maintaining laboratory instruments and equipment, m	Occupations in this minor group are classified into the following unit groups: 3111 Chemical and physical science technicians 3112 Civil engineering technicians 3113 Electrical engineering technicians 3114 Electronics engineering technicians 3115 Me	

Chemical and physical science technicians	3111	Chemical and physical science technicians perform technical tasks to aid in research in chemistry, physics, geology, geophysics, meteorology and astronomy, and in the development of industrial, medical, military and other practical applications of research. Tasks include - (a) collecting samples and preparing materials and equipment for experiments, tests and analyses; (b) carrying out routine laboratory tests and performing a variety of technical support functions to assist chemical and physical scientists. Examples of the occupations classified here: - Chemistry technician - Geology technician - Meteorology technician - Physics technician	Some related occupations classified elsewhere: - Chemical engineering technician - 3116 - Life science technician - 3141
Civil engineering technicians	3112	Civil engineering technicians perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures, such as water supply and wastewater treatment systems, bridges, roads, dams and reports. (a) performing or assisting with field and laboratory tests of soils and construction materials; (b) providing technical assistance connected with the construction of buildings and other structures, and with surveys or the preparation of survey reports. Examples of the occupations classified here: - Building inspector - Clerk of Works - Civil engineering technician - Fire inspector - Geotechnical technician - Surveying technician	Some related occupations classified elsewhere: - Quantity Surveyor - 2149 - Marine Surveyor - 3115 - Fire investigator - 3119

Electrical engineering technicians

3113

Electrical engineering technicians perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.

Tasks include -

- (a) providing technical assistance in research on and development of electrical equipment and facilities, or testing prototypes;
- (b) designing and preparing blueprints of electrical installations and circuitry according to the specific

Examples of the occupations classified here:

- Electrical engineering technician
- Electric power transmission engineering technician

Some related occupations classified elsewhere:

- Electronics engineering technician - 3114
- Power production plant operator – 3131
- Electrical mechanic - 7241

Electronics engineering technicians

3114

Electronics engineering technicians perform technical tasks to aid in electronic research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electronic equipment.

Tasks include -

- (a) providing technical assistance in research and development of electronic equipment, or testing prototypes;
- (b) designing and preparing blueprints of electronic circuitry according to the specifications given;
- (c) preparing detail

Examples of the occupations classified here:

- Electronics engineering technician

Some related occupations classified elsewhere:

- Electrical engineering technician - 3113
- Telecommunications engineering technician – 3522
- Electronics mechanic – 7421
- Electronic equipment assembler - 8212

Mechanical engineering technicians	3115
Chemical engineering technicians	3116

Mechanical engineering technicians perform technical tasks to aid in mechanical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.	3115	Tasks include - (a) providing technical assistance in research on and development of machines and mechanical installations facilities and components, or testing prototypes; (b) designing and preparing layouts of machines and mechanical installations	Examples of the occupations classified here: - Aeronautics engineering technician - Marine engineering technician - Mechanical engineering technician - Mechanical engineering estimator	Some related occupations classified elsewhere: - Industrial machinery mechanic, 7233 - Mechanical machinery assembler - 8211
Chemical engineering technicians perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.	3116	Tasks include - (a) assisting in research on and development of industrial chemical processes, plant and equipment, or testing prototypes; (b) designing and preparing layouts of chemical plants according to the specifications given; (c) preparing deta	Examples of the occupations classified here: - Chemical engineering technician - Chemical engineering estimator - Petroleum engineering technician	Some related occupations classified elsewhere: - Chemical technician - 3111

Mining and metallurgical technicians	3117	Mining and metallurgical technicians perform technical tasks to assist in research and experiments related to metallurgy, in improving methods of extracting solid minerals, oil and gas, and in the design, construction, operation, maintenance and repair o	Tasks include - (a) providing technical assistance to aid in research on and development of processes to determine the properties of metals and new alloys; (b) providing technical assistance in geological and topographical surveys, and in the design an	Examples of the occupations classified here: - Mines inspector - Mining engineering technician - Metallurgical technician	Some related occupations classified elsewhere: - Mining plant operator - 8111 - Miner - 8111 - Quarrier - 8111 - Geology technician - 3111
Draughtspersons	3118	Draughtspersons prepare technical drawings, maps and illustrations from sketches, measurements and other data, and copy final drawings and paintings onto printing plates.	Tasks include - (a) preparing and revising working drawings from sketches and specifications prepared by engineers and designers for the manufacture, installation and erection of machinery and equipment or for the construction, modification, maintenanc	Examples of the occupations classified here: - Draughtsperson - Technical illustrator	Some related occupations classified elsewhere: - Cartographer - 2165 - Surveyor - 2165

Physical and engineering science technicians not elsewhere classified	3119	This unit group covers physical and engineering science technicians not classified elsewhere in Minor group 311, Physical and engineering science technicians. For instance, the group includes those who assist scientists and engineers engaged in developin In such cases tasks would include - (a) collecting data and providing technical assistance regarding: efficient, safe and economic utilization of personnel, material and equipment; methods of work and sequence of operations and supervision of their i Examples of the occupations classified here: - Engineering technician (production) - Time and motion study technician - Quantity surveying technician - Robotics technician - Forensic science technician - Fire investigator Some related occupations classified elsewhere: - Production engineer - 2149 - Time and motion study engineer - 2149 - Quantity surveyor - 2149 - Aeronautics engineering technician - 3115
Mining, manufacturing and construction supervisors	312	Mining, manufacturing and construction supervisors co-ordinate, supervise, control and schedule the activities of workers in manufacturing, mining and construction operations. Tasks performed usually include: overseeing, supervising and co-ordinating the activities of tradespersons, process control technicians, machine operators, assemblers, labourers and other workers; organizing and planning daily work; preparing cost esti Occupations in this minor group are classified into the following unit groups: 3121 Mining supervisors 3122 Manufacturing supervisors 3123 Construction supervisors Jobs classified in minor group 312, Mining, manufacturing and construction supervisors, mainly involve planning, organizing, co-ordinating, controlling and directing the work done by others. Most of the time workers employed in these jobs do not perform
Mining supervisors	3121	Mining supervisors oversee mining and quarrying operations and directly supervise and coordinate the activities of miners working in underground and surface mines and quarries. Tasks include - (a) directly supervising and coordinating the activities of workers who extract minerals and other natural deposits from the earth, operate underground conveyances or heavy equipment in surface mines and quarries; (b) establishing metho Examples of the occupations classified here: - Mine deputy - Mine supervisor - Mine under-manager - Quarry supervisor Some related occupations classified elsewhere: - Mine manager - 1322 - Mine safety inspector - 3117 - Miner - 8111 - Quarrier - 8111
Manufacturing supervisors	3122	Manufacturing supervisors co-ordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing labourers. (a) co-ordinating and supervising the activities of process control technicians, machine operators, assemblers, and other manufacturing labourers; (b) organizing and planning the daily work with regard to plans, economy, staff and environment; (c) pre Examples of the occupations classified here: - Area co-ordinator, manufacturing - Assembly supervisor - Foreman / woman, assembly - Finishing supervisor - Production supervisor, manufacturing Some related occupations classified elsewhere: - Manufacturing manager - 1321

Construction supervisors	3123	Construction supervisors, co-ordinate, supervise and schedule the activities of workers engaged in the construction and repair of buildings and structures.	Tasks include - (a) reading specifications to determine construction requirements and planning procedures; (b) organizing and coordinating the material and human resources required to complete jobs; (c) examining and inspecting work progress; (d) exam	Examples of the occupations classified here: - Building construction supervisor - Site manager (construction)	Some related occupations classified elsewhere: - Construction project manager - 1323 - Project builder - 1323 - Clerk of Works - 3112
Process control technicians	313	Process control technicians operate and monitor switchboards, computerized control systems, multi-function process control machinery and maintain processing units in electrical power generation and distribution, wastewater, sewage treatment and waste disposal	Tasks performed usually include: operating electronic or computerized control panel from a central control room to monitor and optimize processes; controlling process start-up and shut-down; operating and monitoring switchboards and related equipment; mon	Occupations in this minor group are classified into the following unit groups: 3131 Power production plant operators 3132 Incinerator and water treatment plant operators 3133 Chemical processing plant controllers 3134 Petroleum and natural gas refini	
Power production plant operators	3131	Power-production plant operators operate, monitor and maintain switchboards and related equipment in electrical control centres which control the production and distribution of electric or other power in transmission networks. The equipment operated incl	Tasks include: (a) operating, monitoring and inspecting various types of energy generating power plants; (b) operating and controlling power generating systems and equipment including boilers, turbines, generators, condensers, and reactors in hydro, t	Examples of the occupations classified here: - Electric power plant operator - Hydroelectric power plant operator - Nuclear power plant operator - Solar power plant operator - Distribution control operator - Generating station operator - Power sys	Some related occupations classified elsewhere: - 8182 Steam engine and boiler operators

Incinerator and water treatment plant operators	3132	Incinerator and water-treatment plant operators monitor and operate computerized control systems and related equipment in solid and liquid waste treatment plants to regulate the treatment and disposal of sewage and wastes, and in water filtration and tre	(a) operating and monitoring computerized control systems, machinery and related equipment in wastewater treatment, sewage treatment, and liquid waste plants to regulate flow, treatment and disposal of sewage and wastes, and in water filtration and trea	Examples of the occupations classified here: - Incinerator operator - Pumping-station operator - Liquid waste process operator - Sewage plant operator - Waste water operator - Water treatment plant operator
Chemical processing plant controllers	3133	Chemical processing plant controllers operate and monitor chemical plants and adjust and maintain, processing units and equipment which distil, filter, separate, heat or refine chemicals.	(a) operating electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units; (b) adjusting equipment, valves, pumps, controls and process equipment; (c) contro	Examples of the occupations classified here: - Chemical-heat-treating-plant operator - Chemical-filtering and separating equipment operator - Chemical-still and reactor operator - Chemical process technician Some related occupations classified elsewhere: - Petroleum and natural gas refinery operators - 3134 - Chemical products plant and machine operators - 8131
Petroleum and natural gas refining plant operators	3134	Petroleum and natural gas refining plant operators operate and monitor plants and adjust and maintain processing units and equipment which refine, distil and treat petroleum, petroleum-based products and by products, or natural gas.	(a) operating electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units; (b) adjusting equipment, valves, pumps, controls and process equipment; (c) con	Examples of the occupations classified here: - Operator, blender/petroleum and natural gas refining (ethyl) - Operator, paraffin plant - Operator, still/petroleum and natural gas refining - Refinery process technician - Petroleum process operator Some related occupations classified elsewhere: - Chemical processing plant controllers - 3133 - Chemical products plant and machine operators - 8131

Agricultural technicians	3142	Agricultural technicians perform tests and experiments, and provide technical and scientific support to agricultural scientists, farmers and farm managers.	Tasks include - (a) preparing materials and equipment for experiments, tests and analyses; (b) collecting and preparing specimens such as soils, plant or animal cells, tissues or parts or animal organs for experiments, tests and analyses; (c) assistin	Examples of the occupations classified here: - Dairy Technician - Field Crop Technical Officer - Herd Tester - Horticultural Technical Officer - Poultry Technical Officer	Some related occupations classified elsewhere: - Artificial inseminator 3240 - Veterinary technician 3240
Forestry technicians	3143	Forestry technicians perform technical and supervisory functions in support of forestry research and forest management, harvesting, resource conservation and environmental protection.	Tasks include - (a) conducting forest inventories, surveys and field measurements following accepted scientific and operational procedures; (b) assisting in and performing technical functions in the preparation of forest management and harvest plans us	Examples of the occupations classified here: - Forestry technician - Silviculture technician	
Ship and aircraft controllers and technicians	315	Ship and aircraft controllers and technicians, command and navigate ships and aircraft, perform technical functions to ensure safe and efficient movement and operations, and develop electrical, electromechanical, and computerized air control systems.	Tasks performed usually include: controlling the operation of mechanical, electrical and electronic equipment on board ship or on aircraft, commanding and navigating ships or aircraft, directing the movements of ships or aircraft and developing electrical	Occupations in this minor group are classified into the following unit groups: 3151 Ships' engineers 3152 Ships' deck officers and pilots 3153 Aircraft pilots and related associate professionals 3154 Air traffic controllers 3155 Air traffic safety	

Ships' engineers	3151	Ships' engineers control and participate in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship, or perform related supporting functions on shore.	(a) controlling and participating in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship; (b) ordering fuel and other engine-room department stores and maintaining record of operations; (c)	Examples of the occupations classified here: - Ships' Engineer	Some related occupations classified elsewhere: - Marine engineer - 2144
Ships' deck officers and pilots	3152	Ships' deck officers and pilots command and navigate ships and similar vessels, and perform related functions on shore.	(a) commanding and navigating ship or similar vessel at sea or on inland waterways; (b) controlling and participating in deck and bridge-watch activities; (c) navigating vessels into and out of ports and through channels, straits and other waters wher	Examples of the occupations classified here: - Captain ship/sea - Pilot, ship - Skipper, yacht	Some related occupations classified elsewhere: - Sailor 8350
Aircraft pilots and related associate professionals	3153	Aircraft pilots and related associate professionals control the operation of mechanical, electrical and electronic equipment, in order to navigate aircraft for transporting passengers, mail and freight and perform related pre-flight and in-flight tasks.	(a) flying and navigating aircraft in accordance with established control and operating procedures; (b) preparing and submitting flight plan or examining standard flight plan; (c) controlling the operation of mechanical, electrical and electronic eq	Examples of the occupations classified here: - Flight Engineer - Flying instructor - Navigator (flight) - Pilot (aircraft)	

Air traffic controllers	3154	Air traffic controllers direct aircraft movements in airspace and on the ground, using radio, radar and lighting systems, and provide information relevant to the operation of aircraft.	(a) directing and controlling aircraft approaching and leaving airport and their movement on the ground; (b) ground; (c) directing and controlling aircraft operating in designated airspace sector; (d) examining and approving flight plans; (e) informing fli	Examples of the occupations classified here: - Air traffic controller
Air traffic safety electronics technicians	3155	Air traffic safety electronics technicians perform technical tasks concerning the design, installation, management, operation, maintenance and repair of air traffic control and air navigation systems.	Tasks include: (a) carrying out technical duties related to the development of electronic and computerized air navigation systems and equipment, and testing prototypes; (b) providing technical help in the design and layout of specific interface circui	Example of the occupations classified here: - Air traffic safety technician - Air traffic safety engineer Occupations in this sub-major group are classified into the following minor groups: Some related occupations classified elsewhere: - Aeronautical engineer - 2144 - Electronics engineer - 2151 - Aeromechanic - 7232 - Aircraft maintenance engineer (avionics) -7421 - Avionics technician - 7421
Health associate professionals	32	Health associate professionals perform technical and practical tasks to support diagnosis and treatment of illness, disease, injuries and impairments in humans and animals, and to support implementation of health care, treatment and referrals plans usuall	Tasks performed by workers in the sub major group usually include: testing an operating medical imaging equipment and administering radiation therapy; performing clinical tests on specimens of bodily fluids and tissues; medications and other	321 Medical and pharmaceutical technicians 322 Nursing and midwifery associate professionals 323 Traditional and complementary medicine associate professionals

Medical and pharmaceutical technicians	321	Medical and pharmaceutical technicians perform technical tasks to assist in diagnosis and treatment of illness, disease, injuries and impairments	Tasks usually include: testing and operating radiographic, ultrasound and other medical imaging equipment; administering radiopharmaceuticals or radiation to patients to detect or treat diseases; performing clinical tests on specimens of bodily fluids and	Occupations in this minor group are classified into the following unit groups: 3211 Medical imaging and therapeutic equipment technicians 3212 Medical and pathology laboratory technicians 3213 Pharmaceutical technicians and assistants
Medical imaging and therapeutic equipment technicians	3211	Medical imaging and therapeutic equipment technicians test and operate radiographic, ultrasound and other medical imaging equipment to produce images of body structures for the diagnosis and treatment of injury, disease and other impairments. They may adm	Tasks include - (a) operating or overseeing operation of radiologic, ultrasound and magnetic imaging equipment to produce images of the body for diagnostic purposes; (b) explaining procedures, observing and positioning patients, and using protection	Examples of the occupations classified here: - Diagnostic medical radiographer - Mammographer - Medical radiation therapist - Nuclear medicine technologist - Sonographer Some related occupations classified elsewhere: - Medical physicist - 2111 - Radiologist - 2212 - Radiation Protection Expert - 2263 - Medical imaging assistant- 5329
Medical and pathology laboratory technicians	3212	Medical and pathology laboratory technicians perform clinical tests on specimens of bodily fluids and tissues in order to obtain information about the health of a patient or cause of death.	Tasks include - (a) conducting chemical analysis of body fluids, including blood, urine, and spinal fluid, to determine presence of normal and abnormal components; (b) operating, calibrating and maintaining equipment used in quantitative and qualitativ	Examples of the occupations classified here: - Blood-bank technician - Cytology technician - Medical laboratory technician - Pathology technician Some related occupations classified elsewhere: - Forensic science technician - 2119 - Pathologist - 2212 - Veterinary technician - 3240 - Phlebotomist - 5329

Pharmaceutical technicians and assistants	3213
Medical and dental prosthetic technicians	3214

Pharmaceutical technicians and assistants perform a variety of tasks associated with dispensing medicinal products under the guidance of a pharmacist or other health professional.

Tasks include:
 (a) preparing medications and other pharmaceutical compounds under the guidance of a pharmacist or other health professional;
 (b) dispensing medicines and drugs to clients and giving written and oral instructions on their use, as prescribed.

Examples of the occupations classified here:
 - Pharmaceutical technician
 - Pharmaceutical assistant

Some related occupations classified elsewhere:
 - Pharmacist - 2262
 - Pharmacology technician - 3141
 - Pharmacy aid - 5329

Medical and dental prosthetic technicians design, fit, service and repair medical and dental devices and appliances following prescriptions or instructions established by a health professional. They may service a wide range of support instruments to correct

Tasks include -
 (a) examining, interviewing, and measuring patients in order to determine their appliance needs, and to identify factors that could affect appliance fit;
 (b) conferring with medical and dental practitioners in order to formulate specific

Examples of the occupations classified here:
 - Dental technician
 - Denturist
 - Orthotic technician
 - Orthotist
 - Prosthetic technician
 - Prosthetist

Some related occupations classified elsewhere:
 - Dental aide - 5329

Occupations included in this category normally require some medical, dental and anatomical and engineering knowledge obtained through formal training. Technicians who construct and repair precision medical and surgical instruments are not included here.

Nursing and midwifery associate professionals	322	Nursing and midwifery associate professionals provide basic nursing and personal care for people who are physically or mentally ill, disabled or infirm, and others in need of care due to potential risks to health including before, during and after childbirth	Tasks performed usually include: providing nursing and personal care, treatment and advice to patients as per care plans as established by health professionals; assisting professional nurses, midwives and medical doctors in administering medication and	Occupations in this minor group are classified into the following unit groups: 3221 Nursing associate professionals 3222 Midwifery associate professionals	
Nursing associate professionals	3221	Nursing associate professionals provide basic nursing and personal care for people in need of such care due to effects of ageing, illness, injury, or other physical or mental impairment. They generally work under the supervision of, and in support of	Tasks include: (a) providing nursing and personal care and treatment and health advice to patients as per care plans established by health professionals; (b) administering medications and other treatments to patients, monitoring patients' condition and	Examples of the occupations classified here: - Associate professional nurse - Assistant nurse - Enrolled nurse - Practical nurse	Some related occupations classified elsewhere: - Professional nurse - 2221 - Clinical nurse consultant - Specialist nurse - 2221 - Professional midwife - 2222 - Associate professional midwife - 3222 - Nursing aide (hospital or clinic) - 5321 - Nursing The distinction between professional and associate professional nurses should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition. The qualifications held by individuals or that predominate in the
Midwifery associate professionals	3222	Midwifery associate professionals provide basic health care and advice before, during and after pregnancy and childbirth. They implement care, treatment and referral plans usually established by medical, midwifery and other health professionals.	Tasks include - (a) providing advice to women, families and communities on health, nutrition, hygiene, exercise, birth and emergency plans, breastfeeding, infant care, family planning and contraception, lifestyle and other topics related to pregnancy and	Examples of the occupations classified here: - Assistant midwife - Traditional midwife	Some related occupations classified elsewhere: - Clinical nurse consultant - 2221 - Nurse, professional - 2221 - Specialist nurse - 2221 - Nursing aide (hospital) - 5321 - Professional midwife - 2222 - Midwifery attendant - 5321 The criteria for inclusion of individuals in this category should be made on the basis of the nature of the work performed in relation to the tasks specified in this definition, and not the qualifications held by individuals or that predominate in the cou
Traditional and complementary medicine associate professionals	323	Traditional and complementary medicine associate professionals prevent, care for and treat human physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cul	Tasks performed usually include: examining patients and interviewing them and their families to determine their health status and the nature of physical or mental disorders or illnesses or other ailments; recommending and providing care and treatment f	Occupations in this minor group are classified into the following unit groups: 3230 Traditional and complementary medicine associate professionals	

Traditional and complementary medicine associate professionals	3230	Traditional and complementary medicine associate professionals prevent, care for and treat human physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cul	Tasks include - (a) examining patients and interviewing them and their families to determine their health status and the nature of physical or mental disorders or illnesses or other ailments; (b) recommending and providing care and treatment for ill	Examples of the occupations classified here: - Bonesetter - Herbalist - Witch doctor - Village healer - Scraping and cupping therapist	Some related occupations classified elsewhere: - Acupuncturist - 2230 - Ayurvedic practitioner - 2230 - Chinese herbal medicine practitioner - 2230 - Homeopath - 2230 - Naturopath - 2230 - Traditional midwife - 3222 - Acupressure therapist - 3255 -	Occupations in traditional and complementary medicine whose practice requires an extensive understanding of the benefits and applications of traditional and complementary therapies, developed as the result of prolonged formal study of these techniques a
Veterinary technicians and assistants	324	Veterinary technicians and assistants carry out advisory, diagnostic, preventive and curative veterinary tasks, more limited in scope and complexity than those carried out by veterinarians. They care for animals under treatment and in temporary reside	Tasks performed usually include: advising communities and individuals on the treatment of animals and their diseases and injuries; conducting examinations of animals to make diagnoses or refer more difficult cases to veterinarians when needed; treating	Occupations in this minor group are classified into the following unit groups: 3240 Veterinary technicians and assistants		
Veterinary technicians and assistants	3240	Veterinary technicians and assistants carry out advisory, diagnostic, preventive and curative veterinary tasks, more limited in scope and complexity than those carried out by, and with the guidance of, veterinarians. They care for animals under treatment	Tasks include - (a) advising communities and individuals on the treatment of animals and their diseases and injuries; (b) conducting examinations of animals to make diagnoses or refer more difficult cases to veterinarians when needed; (c) treating ill	Examples of the occupations classified here: - Artificial inseminator - Veterinary assistant - Veterinary nurse - Veterinary vaccinator	Some related occupations classified elsewhere: - Veterinarian - 2250 - Animal attendant - 5164 - Veterinary aide - 5164	

Other health associate professionals	325	Other health associate professionals perform technical tasks and provide support services in dentistry, medical records administration, community health, the correction of reduced visual acuity, physiotherapy, environmental health, emergency medical treatment	Tasks usually include: providing basic care services for the prevention and treatment of diseases and disorders of the teeth and mouth; advising communities and individuals on hygiene, diet and other preventive measures to reduce potential risks to heal	Occupations in this minor group are classified into the following unit groups: 3251 Dental assistants and therapists 3252 Medical records and health information technicians 3253 Community health workers 3254 Dispensing opticians 3255 Physiotherapy	
Dental assistants and therapists	3251	Dental assistants and therapists provide basic dental care services for the prevention and treatment of diseases and disorders of the teeth and mouth, as per care plans and procedures established by a dentist or other oral health professional.	Tasks include: (a) advising communities and individuals on dental hygiene, diet and other preventive measures to reduce potential risks to oral health; (b) conducting visual and physical examinations of patients' mouths, teeth and related structures	Examples of the occupations classified here: - Dental assistant - Dental hygienist - Dental therapist	Some related occupations classified elsewhere: - Dentist - 2261 - Dental mechanic - 3214 - Dental prosthetist - 3214 - Dental technician - 3214 - Dental aid - 5329
Medical records and health information technicians	3252	Medical records and health information technicians develop, maintain and implement health records processing, storage and retrieval systems in medical facilities and other health care settings to meet the legal, professional, ethical and administrative requirements	(a) planning, developing, maintaining and operating a variety of health record indexes and storage and retrieval systems to collect, classify, store and analyze information; (b) transcribing, compiling and processing patient medical records, admissions	Examples of the occupations classified here: - Clinical coder - Disease registry technician - Health information clerk - Medical records analyst - Medical records clerk - Medical records technician	Some related occupations classified elsewhere: - Data entry clerk - 4132 - Filing clerk - 4132 - Medical secretary - 3344 Occupations included in this unit group normally require knowledge of medical terminology, legal aspects of health information, health data standards, and computer- or paper-based data management as obtained through formal education and/or on-the-job training

Community health workers	3253	Community health workers provide health education, referral and follow up, case management, and basic preventive health care and home visiting services to specific communities. They provide support and assistance to individuals and families in navigating	(a) providing information to families and communities on a range of health issues including nutrition, hygiene, infant and child care, immunizations, family planning, risk factors and prevention of common infectious diseases, poisoning prevention, fir	Examples of the occupations classified here: - Community health aide - Community health promoter - Community health worker - Village health worker	Some related occupations classified elsewhere: - Village healer - 3230 - Traditional midwife - 3222 - Home care aide - 5322	Occupations included in this category normally require formal or informal training and supervision recognized by the health and social services authorities. Providers of routine personal care, self-defined health care providers and traditional medicine pr
Dispensing opticians	3254	Dispensing opticians design, fit and dispense optical lenses based on a prescription from an ophthalmologist or optometrist for the correction of reduced visual acuity. They service corrective eyeglasses, contact lenses, low-vision aids and other optic	Tasks include - (a) examining and taking facial and eye measurements of clients for fitting of eyeglasses and other optical devices; (b) providing advice to clients with selection and maintenance of eyeglasses and frames, types of contact lenses and	Examples of the occupations classified here: - Contact lens optician - Dispensing optician	Some related occupations classified elsewhere: - Ophthalmologist - 2212 - Ophthalmic optician - 2267 - Optometrist - 2267 - Orthoptist - 2267	
Physiotherapy technicians and assistants	3255	Physiotherapy technicians and assistants provide physical therapeutic treatments to patients in circumstances where functional movement is threatened by injury, disease or impairment. Therapies are usually provided as per rehabilitative plans established	Tasks include - (a) administering manual treatments such as massage therapy or pressure point therapy; (b) administering electrical modality treatments, ultrasound, and other physical therapies using specialized techniques and equipment, including in-	Examples of the occupations classified here: - Acupressure therapist - Electrotherapist - Hydrotherapist - Massage therapist - Physiotherapy technician - Physical rehabilitation technician - Shiatsu therapist	Some related occupations classified elsewhere: - Physiotherapist - 2264 - Podiatrist - 2269 - Occupational therapist - 2269 - Chiropractor - 3259	

Medical assistants	3256	Medical assistants perform basic clinical and administrative tasks to support patient care under the direct supervision of a medical practitioner or other health professional.	Tasks include - (a) interviewing patients and their families to obtain information on their health status and medical history; (b) assisting medical doctors and other health professionals to examine and treat patients, including measuring and recording	Examples of the occupations classified here: - Clinical assistant - Medical assistant - Ophthalmic assistant	Some related occupations classified elsewhere: - Clinical officer (paramedical) - 2240 - Medical prosthetic technician - 3214 - Dental assistant - 3251 - Physiotherapy assistant - 3255 - Medical secretary - 3344 - Medical imaging assistant - 5329	Occupations included in this category normally require formal training in health services provision. Clinical care providers with advanced training and skills to provide independent medical diagnostic and treatment services are classified in unit group 22
Environmental and occupational health inspectors and associates	3257	Environmental and occupational health inspectors and associates investigate the implementation of rules and regulations relating to environmental factors that may affect human health, safety in the workplace, and safety of processes for the production of	Tasks include - (a) advising employers' and workers' representatives on the implementation of government and other rules and regulations concerning occupational safety and the working environment; (b) inspecting places of work to ensure that the work	Examples of the occupations classified here: - Food sanitation and safety inspector - Health inspector - Occupational health and safety inspector - Sanitarian - Sanitary inspector	Some related occupations classified elsewhere: - Environmental health officer - 2263 - Occupational health and safety adviser - 2263 - Occupational hygienist - 2263 - Radiation protection expert - 2263	

Ambulance workers	3258	Ambulance workers provide emergency health care to patients who are injured, sick, infirm, or otherwise physically or mentally impaired prior to and during transport to medical facilities.	Tasks include - (a) assessing health status of persons involved in accidents, natural disasters and other emergency situations, and determining needs for immediate and specialized medical assistance; (b) performing medical procedures and administer	Examples of the occupations classified here: - Ambulance officer - Ambulance paramedic - Emergency medical technician - Emergency paramedic	Some related occupations classified elsewhere: - Paramedical practitioner - 2240 - Ambulance driver - 8322	Occupations included in this unit group normally require formal training in emergency medical treatment, patient transport, ambulance principles and practice, or a related field. Ambulance drivers who do not provide health care are classified in Unit group
Health associate professionals not elsewhere classified	3259	This unit group covers health associate professionals not classified elsewhere in Sub-major group 32, Health associate professionals. For instance the group includes occupations such as chiropractor, osteopath and other health associate professionals.	In such cases tasks would include: (a) interviewing and examining patients to obtain information on their health status and the nature and extent of injury, illness or other physical or mental health problem; (b) administering therapeutic care and	Examples of the occupations classified here: - Chiropractor - Osteopath Occupations in this sub-major group are classified into the following minor groups:		
Business and administration associate professionals	33	Business and administration associate professionals perform mostly technical tasks connected with the practical application of knowledge relating to financial accounting and transaction matters, mathematical calculations, human resource development, selling	Tasks performed by workers in this sub-major group usually include recording and transmitting buy and sell orders for securities, stocks, bonds or other financial instruments and for foreign exchange for future or immediate delivery; submitting credit and	331 Financial and Mathematical associate professionals 332 Sales and purchasing agents and brokers 333 Business services agents 334 Administrative and specialized Occupations in this minor group are classified into the following unit groups:		
Financial and mathematical associate professionals	331	Financial and mathematical associate professionals place a value on various items and property, maintain records of financial transactions, analyze loan application information and render a decision, buy and sell financial instruments, and perform mathematical	Recording and transmitting buy and sell orders for securities, stocks, bonds or other financial instruments and for foreign exchange for future or immediate delivery; submitting credit and loan applications to management with recommendations for approval	3311 Securities and finance dealers and brokers 3312 Credit and loans officers 3313 Accounting associate professionals 3314 Statistical, mathematical and related associate		

Securities and finance dealers and brokers	3311	Securities and finance dealers and brokers buy and sell securities, stocks, bonds and other financial instruments, and deal on the foreign exchange, on spot, or on futures markets, on behalf of their own company or for customers on a commission basis. They Tasks include - (a) obtaining information about the financial circumstances of customers and companies in which investments may be made; (b) analyzing market trends for securities, bonds, stocks and other financial instruments, including foreign exchange Examples of the occupations classified here: - Foreign exchange broker - Securities broker - Stocks and shares broker - Foreign exchange dealer Some related occupations classified elsewhere: - Bond analyst - 2413 - Commodities broker - 3324 - Commodity futures dealer - 3324 - Securities clerk - 4312
Credit and loans officers	3312	Credit and loans officers analyze and evaluate financial information on applications for credit and loans and determine approval or disapproval of the client for the credit or loan or recommend to management approval or disapproval. Tasks include: (a) interviewing applicants for personal, mortgage, student and business loans; (b) researching and evaluating loan applicant's financial status, references, credit and ability to repay the loan ; (c) submitting credit and loan applications Examples of the occupations classified here: - Loan officer - Mortgage officer Some related occupations classified elsewhere: - Financial institution branch manager - 1346
Accounting associate professionals	3313	Accounting associate professionals maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions. Tasks include - (a) maintaining complete records of all financial transactions of an undertaking according to general bookkeeping principles, with guidance from Accountants; (b) verifying accuracy of documents and records relating to payments, receipts Example of the occupations classified here: - Bookkeeper Some related occupations classified elsewhere: - Accountant - 2411 - Actuarial assistant - 3314 - Bookkeeping clerk - 4311

Statistical, mathematical and related associate professionals	3314	Statistical, mathematical and actuarial associate professionals assist in planning the collection, processing and presentation of statistical, mathematical or actuarial data and in carrying out these operations, usually working under the guidance of stati	Tasks include - (a) assisting in planning and performing statistical, mathematical, actuarial, and related calculations; (b) preparing detailed estimates of quantities and costs of materials and labour required for statistical census and survey operatio	Examples of the occupations classified here: - Actuarial assistant - Mathematical assistant - Statistical assistant	Some related occupations classified elsewhere: - Actuary - 2120 - Mathematician - 2120 - Statistician - 2120 - Accounting assistant - 3313 - Statistical Clerk - 4312
Valuers and loss assessors	3315	Valuers and loss assessors value property and various goods and assess losses covered by insurance policies.	Tasks include - (a) determining the quality or value of raw materials, real estate, industrial equipment, personal and household effects, works of art, gems and other objects; (b) assessing the extent of damage or loss and liabilities of insurance compa	Examples of the occupations classified here: - Appraiser - Real estate appraiser - Claims assessor - Insurance assessor - Claims inspector - Valuer	Some related occupations classified elsewhere: - Auctioneer - 3339
Sales and purchasing agents and brokers	332	Sales and purchasing agents and brokers represent companies, governments and other organizations to buy and sell commodities, goods, insurance, shipping and other services to industrial, professional, commercial or other establishments, or act as indepe	Tasks performed usually include obtaining information about, monitoring and analyzing market trend; and conditions and employer's and competitors goods and services; obtaining information about clients' needs and identifying suitable products and servic	Occupations in this minor group are classified into the following unit groups: 3321 Insurance representatives 3322 Commercial sales representatives 3323 Buyers 3324 Trade brokers	Sales managers are classified in minor group 122. Sales marketing and development managers. Technical, medical and ICT sales professionals are classified in Minor Group 243. Sales, marketing and public relations professionals. Securities and finance deal
Insurance representatives	3321	Insurance representatives advise on and sell life, accident, automobile, liability, endowment, fire, marine and other types of insurance to new and established clients.	Tasks include - (a) obtaining information about customers' circumstances necessary to determine appropriate type of insurance and conditions; (b) negotiating with customers to determine type and degree of risk for which insurance is required; (c) exp	Examples of the occupations classified here: - Insurance agent - Insurance broker - Insurance underwriter	Some related occupations classified elsewhere: Insurance agency manager - 1346 Insurance assessor- 3315 Securities dealer - 3311 Insurance clerk - 4312

Commercial sales representatives	3322	Commercial sales representatives represent companies to sell various goods and services to businesses and other organizations and provide product specific information as required.	Tasks include - (a) soliciting orders and selling goods to retail, industrial, wholesale and other establishments; (b) selling equipment, supplies and related services to business establishments or individuals; (c) obtaining and updating knowledge of	Examples of the occupations classified here: - After-sales service adviser - Canvasser - Commercial traveller	Some related occupations classified elsewhere: Sales manager - 1221 Medical sales representative - 2433 Technical sales representative - 2433 Information and communications technology sales professional - 2434 Shop sales assistant - 5223 Door to door
Buyers	3323	Buyers buy goods and services for use or resale on behalf of industrial, commercial, government or other establishments and organizations.	Tasks include - (a) determining or negotiating contract terms and conditions, awarding supplier contracts or recommending contract awards for the purchase of equipment, raw materials products, services and the purchasing of merchandise for resale; (b)	Examples of the occupations classified here: - Buyer - Purchasing agent - Procurement officer - Supply officer - Purchasing merchandiser	Some related occupations classified elsewhere: Commodities broker - 3324
Trade brokers	3324	Trade brokers buy and sell commodities and shipping services, usually in bulk, on behalf of their own company or for customers on a commission basis.	Tasks include - (a) establishing contact between buyers and sellers of commodities; (b) discussing buying or selling requirements of clients and giving advice accordingly; (c) buying and selling cargo space on ships; (d) negotiating purchase or sale	Examples of the occupations classified here: - Commodities broker - Commodity futures dealer - Shipping broker	Some related occupations classified elsewhere: Finance broker - 3311 Finance dealer - 3311 Securities broker - 3311 Securities dealer - 3311 Insurance dealer - 3321

Business services agents	333	Business service agents establish contacts to sell various business services such as advertising space in the media, carry out customs clearance activities ensuring that necessary documents are in order, match jobseekers with vacancies, find workers for	Tasks performed usually include - Carrying out customs clearing procedures for exports or imports; arranging and coordinating conference and event services, such as conference facilities, catering, signage, displays, audiovisual and computer equipment, ac	Occupations in this minor group are classified into the following unit groups: 3331 Clearing and forwarding agents 3332 Conference and event planners 3333 Employment agents and contractors 3334 Real estate agents and property managers 3339 Business
Clearing and forwarding agents	3331	Clearing and forwarding agents carry out customs clearing procedures and ensure that insurance, export/import licences and other formalities are in order.	Tasks include - (a) carrying out customs clearing procedures for exports or imports; (b) ensuring that insurance is in order; (c) ensuring that export/import licences and other formalities are in order; (d) signing and issuing bills of lading; (e) ch	Examples of the occupations classified here: - Clearing agent - Forwarding agent - Shipping agent
Conference and event planners	3332	Conference and event planners organize and coordinate services for conferences, events, functions, banquets and seminars.	Tasks include - (a) promoting conferences, conventions and trade shows to potential customers; (b) responding to inquiries concerning services provided and costs for room and equipment hire, catering and related services; (c) meeting with clients to	Examples of the occupations classified here: - Conference and event organizer - Conference planner - Wedding planner
Employment agents and contractors	3333	Employment agents and contractors match jobseekers with vacancies, find workers for employers and contract labour for particular projects at the request of enterprises and other organizations including government, institutions, or find places for jobseeker	Tasks include - (a) matching jobseekers with vacancies; (b) finding workers for vacant posts against a commission from the employer or worker; (c) discussing with enterprises/organizations the needed skills and other characteristics of the workers to	Examples of the occupations classified here: - Employment agent - Labour contractor - Job placement officer Some related occupations classified elsewhere: - Literacy agent- 3339 - Musical performance agent - 3339 - Sports agent - 3339 - Theatrical agent - 3339

Real estate agents and property managers	3334	Real estate agents and property managers arrange the sale, purchase, rental and lease of real property, usually on behalf of clients and on a commission basis.	Tasks include - (a) obtaining information about properties to be sold or leased, the circumstances of their owner and the needs of prospective buyers or tenants; (b) showing properties to be sold or leased to prospective buyers or tenants and explaining	Examples of the occupations classified here: - Estate agent - Property Manager - Realtor - Salesperson (real estate)	Some related occupations classified elsewhere: - Mortgage clerk - 4312
Business services agents not elsewhere classified	3339	This unit group covers business services agents not classified elsewhere in Minor group 333, Business services agents. For instance, the group includes those who establish business contacts, sell business services such as advertising space in the media,	In such cases tasks would include - (a) obtaining information about services to be sold and needs of prospective buyers; (b) negotiating contracts on behalf of seller or buyer and explaining terms of sale and payment to client; (c) signing agreements	Examples of the occupations classified here: - Auctioneer - Advertising salesperson - Literary agent - Musical performance agent - Sports agent - Theatrical agent	
Administrative and specialized secretaries	334	Administrative and specialized secretaries provide organizational, communication and documentation support services, utilizing specialized knowledge of the business activity of the organization in which they are employed. They take supervisory responsibilities	Tasks performed usually include: coordinating, assigning and reviewing the work of clerical support workers; desktop publishing; preparing and processing legal documents and papers, such as deeds, wills, affidavits and briefs; implementing and supporting	Occupations in this minor group are classified into the following unit groups: 3341 Office supervisors 3342 Legal secretaries 3343 Administrative and executive secretaries 3344 Medical secretaries	
Office supervisors	3341	Office supervisors supervise and coordinate the activities of workers in major group 4, Clerical support workers.	Tasks include - (a) coordinating, assigning and reviewing the work of clerks engaged in the following duties: word processing, record keeping and filing, operating telephones and switchboards; data entry, desktop publishing and other activities involving	Examples of the occupations classified here: - Clerical supervisor - Data entry supervisor - Filing clerks supervisor - Personnel clerks supervisor	Some related occupations classified elsewhere: - Medical records unit supervisor - 3252

Legal secretaries	3342	Legal secretaries apply specialized knowledge of legal terminology and procedures in providing support to legal professionals with communication, documentation and internal managerial coordination activities, in law offices, legal departments of large f	Tasks include - (a) preparing and processing legal documents and papers, such as deeds, wills, affidavits and briefs; (b) reviewing and proofreading documents and correspondence to ensure compliance with legal procedures; (c) mailing, faxing, or arra	Examples of the occupations here: - Legal secretary - Legal practice manager	Some related occupations classified elsewhere: Legal assistant - 3411
Administrative and executive secretaries	3343	Administrative and executive secretaries perform liaison, coordination and organizational tasks in support of managers and professionals and/or prepare correspondence, reports and records of proceedings and other specialized documentation.	Tasks include - (a) drafting administrative correspondence and minutes; (b) obtaining, proposing and monitoring deadlines and follow-up dates; (c) screening requests for meetings, scheduling and organizing meetings and travel arrangements; (d) assist	Examples of the occupations classified here: - Administrative secretary - Correspondence assistant - Personal assistant - Court reporter - Executive assistant	Some related occupations classified elsewhere: Secretary (general) - 4120 Medical transcriptionist - 3344
Medical secretaries	3344	Medical secretaries, using specialized knowledge of medical terminology and health care delivery procedures, assist health professionals and other workers by performing a variety of communication, documentation, administrative and internal coordination	Tasks include - (a) scheduling and confirming medical appointments and communicating messages for medical staff; and patients; (b) compiling, recording and reviewing medical charts, reports, documents and correspondence; (c) interviewing patients to c	Example of the occupations classified here: - Medical secretary - Medical practice manager - Medical office administrative assistant - Hospital ward secretary - Patient care secretary - Medical stenographer - Medical insurance - Billing secretar	Some related occupations classified elsewhere: Medical records technician - 3252 Medical assistant - 3256 Medical office receptionist - 4226 Secretary (general) - 4120
Regulatory government associate professionals	335	Regulatory government associate professionals administer, enforce or apply relevant government rules and regulations relating to national borders, taxes, social benefits, and issue or examine applications for licences or authorizations in connection wit	Tasks performed usually include: patrolling national borders and checking persons and vehicles, travel and transport documents and goods transported across the border to ensure enforcement of government rules and regulations; examining tax returns to	Occupations in this minor group are classified into the following unit groups: 3351 Customs and border inspectors 3352 Government tax and excise officials 3353 Government social benefits officials 3354 Government licensing officials 3355 Police in	

Customs and border inspectors	3351	Customs and border inspectors check persons and vehicles crossing national borders to administer and enforce relevant government rules and regulations.	Tasks include - (a) patrolling national borders and coastal waters to stop persons from illegally entering or leaving the country and from illegally importing or exporting currency or goods; (b) checking travel documents of persons crossing national bo	Examples of the occupations classified here: - Border inspector - Customs inspector - Passport checking officer - Immigration officer - Customs officer	
Government tax and excise officials	3352	Government tax and excise officials examine tax returns, bills of sale and other documents to determine the type and amount of taxes, duties and other types of fees to be paid by individuals or businesses, referring exceptional or important cases to a	Tasks include - (a) advising organizations, enterprises and the public on government laws, rules and regulations concerning the determination and payment of taxes, duties and other government fees, and on the public's rights and obligations; (b) examin	Examples of the occupations classified here: - Excise officer - Tax officer - Taxation inspector	Some related occupations classified elsewhere: - Accountant – 2411 - Auditor – 2411
Government social benefits officials	3353	Government social benefits officials examine applications for government, financial or service programs to determine eligibility and amount of benefit or appropriate services, referring exceptional or important cases to senior government officials or man	Tasks include - (a) advising individuals and organizations on government laws, rules and regulations concerning government benefit programs and the determination and disbursement of payments or referral to services, as well as on the public's rights and	Examples of the occupations classified here: - Pensions officer - Social benefits officer - Social security claims officer	Some related occupations classified elsewhere: - Social workers - 2635 - Counselling professionals - 2635

Government licensing officials	3354	Government licensing officials examine applications for licences to export or import goods, set up businesses, build houses or other structures, or to obtain passports, determine eligibility of applications for issuing licences or passports, and identify	Tasks include - (a) advising individuals on government laws and regulations concerning the type of licence required and the conditions attached to such licences, and on the public's rights and obligations; (b) examining applications and relevant docume	Examples of the occupations classified here: - Licensing officer - Passport officer (issuing) - Building permit (licensing) officer - Business permit (licensing) officer	Some related occupations classified elsewhere: - Building inspectors - 3112 - Fire inspectors - 3112
Police inspectors and detectives	3355	Police inspectors and detectives investigate facts and circumstances relating to crimes committed in order to identify suspected offenders and obtain information not readily available or apparent concerning establishments or the circumstances and behaviour	Tasks include - (a) establishing contacts and sources of information about crimes planned or committed, in order to prevent crimes or identify suspected offenders; (b) obtaining and verifying evidence by examining crime and accident scenes for clues and	Examples of the occupations classified here: - Police inquiry agent - Police detective - Police inspector	Some related occupations classified elsewhere: - Police inspector-general - 1112 - Police commissioner - 1112 - Police superintendent - 1349 - Private detective - 3411 - Police officer - 5412
Government regulatory associate professionals not elsewhere classified	3359	This unit group covers government regulatory associate professionals not classified elsewhere in Major group 3, Technicians and associate professionals. For instance the group includes agricultural, fisheries, forestry, prices, wages and weights and meas	In such cases tasks would include - (a) examining places of business to ensure the use of correct weights and measures in trade; (b) monitoring price regulations to assess appropriateness of costs for goods and services to protect consumer interests; (group usually include: providing technical and practical services and support functions in legal processes and investigations, social and community assistance programs, and religious and cultural activities; participating assisting and supporting legal, social work and religious professionals; obtaining and analyzing evidence, preparing legal documents and serving court orders; ; administering and implementing social assistance programs and	Examples of the occupations classified here: - Agricultural inspector - Fisheries inspector - Forestry inspector - Prices inspector - Wage inspector - Weights and measures inspector classified into the following minor groups: 341 Legal, social and religious associate professionals 342 Sports and fitness workers 343 Artistic, cultural and culinary classified into the following unit groups: 3411 Legal and related associate professionals 3412 Social work associate professionals 3413 Religious associate	Some related occupations classified elsewhere: - Fire inspector-3112 - Health Inspector - 3257 - Occupational safety inspector- 3257 - Pollution inspector - 3257 - Sanitary inspector - 3257
Legal, social, cultural and related associate professionals	34	Legal, social, cultural and related associate professionals perform technical tasks connected with the practical application of knowledge relating to legal services, social work, culture, food preparation, sport and religion.			
Legal, social and religious associate professionals	341	Legal, social and religious associate professionals provide technical and practical services and support functions in legal processes and investigations, social and community assistance programs and religious activities.			

Legal and related associate professionals	3411	Legal and related associate professionals perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, the transferring of property and the granting of loans and other financial tra	Tasks include - (a) documenting court proceedings and judgements; (b) serving statements of claims, summonses, warrants, subpoenas and other court orders; (c) maintaining order in court and hearing rooms; (d) preparing legal documents including trial	Examples of the occupations classified here: - Bailiff - Judge's clerk - Conveyancing clerk - Court clerk - Justice of the peace - Law clerk - Legal assistant - Paralegal - Private detective - Title searcher	Some related occupations classified elsewhere: - Lawyer - 2611 - Judge - 2612 - Notary - 2619 - Legal secretary - 3342
Social work associate professionals	3412	Social work associate professionals administer and implement social assistance programs and community services and assist clients to deal with personal and social problems.	(a) collecting information relevant to clients' needs and assessing their relevant skills, strengths and deficits; (b) helping persons with disabilities or the elderly to obtain services and to improve their ability to function in society; (c) assistin	Examples of the occupations classified here: - Community development worker - Community service worker - Crisis intervention worker - Disability services officer - Family service worker - Life skills instructor - Mental health worker - Welfare su	Some related occupations classified elsewhere: - Marriage counsellor - 2635 - Parole officer - 2635 - Probation officer - 2635 - Social worker - 2635

Religious associate professionals	3413	Religious associate professionals provide support to ministers of religion or to a religious community, undertake religious works, preach and propagate the teachings of a particular religion and endeavour to improve well-being through the power of faith spiritual guidance and m Tasks include - (a) undertaking religious works; (b) preaching and propagating the teachings of a particular religious faith; (c) assisting at services of public worship and religious rites; (d) providing religious education, spiritual guidance and m Examples of the occupations classified here: - Faith healer - Lay preacher - Monk - Nun Some related occupations classified elsewhere: - Bonze - 2636 - Imam - 2636 - Minister of religion - 2636 - Poojari - 2636 - Priest - 2636 - Rabbi - 2636 - Herbalist - 3230 - Village healer - 3230 - Witch doctor- 3230
Sports and fitness workers	342	Sports and fitness workers prepare for and compete in sporting events for financial gain, train amateur and professional sportsmen and women to enhance performance, promote participation and standards in sport, organize and officiate sporting events, and Tasks performed usually include: participating in competitive sporting events; conducting sports training to develop ability in and knowledge of the sport; compiling rules concerning the conduct of sporting competitions, and controlling the progress of t 3421 Athletes and sports players 3422 Sports coaches, instructors and officials 3423 Fitness and recreation instructors and program leaders
Athletes and sports players	3421	Athletes and sports players participate in competitive sporting events. They train and compete, either individually or as part of a team, in their chosen sport. Tasks include - (a) participating in competitive sporting events; (b) participating in regular practice and training sessions and undertaking private training to maintain the required standard of fitness and skill; (c) undertaking sports promotional a Examples of the occupations classified here: - Athlete - Boxer - Chess player - Footballer - Golfer - Hockey player - Jockey - Poker player - Race driver - Skier - Tennis player - Wrestler

Sports coaches, instructors and officials	3422	Sports coaches, instructors and officials work with amateur and professional sportspersons to enhance performance, encourage greater participation in sport, and organize and officiate in sporting events according to established rules.	Tasks include - (a) identifying strengths and weaknesses of athletes or teams; (b) planning, developing and implementing training and practice sessions; (c) developing, planning and co-ordinating competitive schedules and programs; (d) motivating and	Examples of the occupations classified here: - Sports coach - Referee - Ski instructor - Sports official - Swimming instructor	Some related occupations classified elsewhere: Fitness instructor - 3423 Horse riding instructor – 3423
Fitness and recreation instructors and program leaders	3423	Fitness and recreation instructors and program leaders lead, guide and instruct groups and individuals in recreational, fitness or outdoor adventure activities.	Tasks include - (a) planning and carrying out recreational and fitness activities; (b) monitoring recreational, sports or fitness activities to ensure safety and provide emergency or first aid assistance when required; (c) evaluating and monitoring cl	Examples of the occupations classified here: - Aerobics instructor - Fitness instructor - Horse riding instructor - Outdoor adventure guide - Personal trainer - Sailing instructor - Underwater diving instructor Occupations in this minor group are classified into the following unit groups:	Some related occupations classified elsewhere: - Ski instructor - 3422 - Swimming instructor - 3422
Artistic, cultural and culinary associate professionals	343	Artistic cultural and culinary associate professionals combine creative skills and technical and cultural knowledge in taking an artistic techniques to product design, processing still photographs; design and decoration of theatre sets, shop displays and the interiors of homes; preparation o	Tasks performed usually include: operating still cameras to photograph people, events, scenes, materials, products and other subjects; applying interior decoration and sales promotion; mounting and preparing objects	3431 Photographers 3432 Interior designers and decorators 3433 Gallery, museum and library technicians 3434 Chefs 3435 Other artistic and cultural	

Photographers	3431	Photographers operate still cameras to photograph people, events, scenes, materials, products and other subjects.	Tasks include - (a) taking photographs for advertising, or other commercial, industrial or scientific purposes and to illustrate stories and articles in newspapers, magazines and other publications; (b) taking portrait photographs of persons and groups	Examples of the occupations classified here: - Aerial photographer - Commercial photographer - Industrial photographer - Photo - journalist - Photographers - Portrait photographer - Scientific photographer	Some related occupations classified elsewhere: - Film camera operator - 3521 - Video camera operator - 3521 - Electronics mechanic - 7421 - Photographic equipment repairer- 7311 - Photogravure photographer- 7321 - Photolithographer - 7321
Interior designers and decorators	3432	Interior designers and decorators plan and design commercial, industrial, public, retail and residential building interiors to produce an environment tailored to a purpose, taking into consideration factors that enhance living and working environments an	Tasks include - (a) determining the objectives and constraints of the design brief by consulting with clients and stakeholders; (b) researching and analysing spatial, functional, efficiency, safety and aesthetic requirements; (c) formulating design co	Examples of the occupations classified here: - Display decorator - Interior decorator - Set designer - Window dresser - Visual merchandiser	Some related occupations classified elsewhere: - Interior architect - 2161
Gallery, museum and library technicians	3433	Gallery, museum and library technicians prepare artworks, specimens and artefacts for collections, arrange and construct gallery exhibits, and assist Librarians to organize and operate systems for handling recorded material and files.	(a) mounting and preparing objects for display; (b) designing and arranging exhibit furnishings, display cases and display areas; (c) assisting in setting up lighting and display equipment; (d) receiving, shipping, packing and unpacking exhibits; (e)	Examples of the occupations classified here: - Gallery technician - Library technician - Museum technician - Taxidermist	

Chefs	3434	Chefs design menus, create dishes and oversee the planning, organization preparation and cooking of meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.	Tasks include - (a) planning and developing recipes and menus, estimating food and labour costs, and ordering food supplies; (b) monitoring quality of dishes at all stages of preparation and presentation; (c) discussing food preparation issues with ma	Examples of the occupations classified here: - Chef - Executive chef - Head chef - Pastry chef - Saucier - Sous-chef	Some related occupations classified elsewhere: - Cook - 5120 - Fast food preparer - 9411
Artistic and cultural associate professionals not elsewhere classified	3435	This unit group covers artistic and cultural associate professionals not classified elsewhere in Minor Group 344, Artistic, cultural and culinary associate professionals. For instance those who assist directors or actors with staging of theatrical, mot		Examples of the occupations classified here: - Body artist - Floor manager (broadcasting) - Lighting technician - Program co-ordinator (broadcasting) - Prompter - Property master (broadcasting) - Script-girl/boy - Special effects technician - St	
Information and communications technicians	35	Information and communications technicians provide support for the day-to-day running of computer systems, communications systems and networks and perform technical tasks related to telecommunications, broadcast of image and sound as well as other types o	Tasks performed by workers in this sub-major group usually include: providing assistance to information and communications systems users ; installing new programs and equipment; establishing, operating and maintaining network and other data communications	Occupations in this sub-major group are classified into the following minor groups: 351 Information and communications technology operations and user support technicians 352 Telecommunications and broadcasting technicians	

Information and communications technology operations and user support technicians	351	Information technology operations and user support technicians provide support for the day-to-day running of communications systems, computer systems and networks and provide technical assistance to users	Tasks performed usually include: operating and controlling peripheral and related computer equipment; monitoring systems for equipment failure or errors in performance; loading peripheral equipment, such as printers, with selected materials for operating	Occupations in this minor group are classified into the following unit groups: 3511 Information and communications technology operations technicians 3512 Information and communications technology user support technicians 3513 Computer network and syst
Information and communications technology operations technicians	3511	Information and communications technology operations technicians support the day-to-day processing, operation and monitoring of information and communications technology systems, peripherals, hardware, software and related computer equipment to ensure op	Tasks include - (a) operating and controlling peripheral and related computer equipment; (b) entering commands, using computer terminal, and activating controls on computer and peripheral equipment to integrate and operate equipment; (c) monitoring s	Examples of the occupations classified here: - Computer operator - High-speed computer printer operator - Computer peripheral equipment operator Some related occupations classified elsewhere: Computer network technician - 3513
Information and communications technology user support technicians	3512	Information and communications technology user support technicians provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, c	Tasks include - (a) answering user inquiries regarding software or hardware operation to resolve problems; (b) entering commands and observing system functioning to verify correct operations and detect errors; (c) installing and performing minor repa	Examples of the occupations classified here: - Communications assistant (ICT) - Computer database assistant - Computer engineering assistant - Computer programming assistant - Computer systems analysis assistant - Computer help desk operator

Computer network and systems technicians	3513	Computer network and systems technicians establish, operate and maintain network and other data communications systems.	Tasks include - (a) operating, maintaining and troubleshooting network systems; (b) operating and maintaining data communications systems other than networks; (c) assisting users with network and data communications problems; (c) identifying areas ne	Examples of the occupations classified here: - Computer network technician - Network support technician	Some related occupations classified elsewhere: - Network administrator - 2522 - Network analyst - 2511 - Computer operator - 3511 - Web technician - 3514
Web technicians	3514	Web technicians maintain, monitor and support the optimal functioning of Internet and Intranet websites and web server hardware and software.	Tasks include - (a) installing, monitoring and supporting the reliability and usability of Internet and Intranet websites or web server hardware or software; (b) developing and maintaining documentation, policies and instructions, recording operational	Examples of the occupations classified here: - Website administrator - Website technician - Webmaster	Some related occupations classified elsewhere: - Computer systems administrator- 2522 - Network administrator - 2522 - Systems administrator - 2522 - Systems analyst - 2511 - Computer software designer- 2512 - Computer games designer- 2166
Telecommunications and broadcasting technicians	352	Telecommunications and broadcasting technicians control technical functioning of equipment to record and edit images and sound and for transmitting radio and television broadcasts of images and sounds, as well as other types of telecommunication signals o	Tasks performed usually include: - controlling equipment to record sound, edit and mix image and sound recordings; - controlling and maintaining transmitting and broadcast systems and satellite systems for radio and television programmes; - controlling and main	Occupations in this minor group are classified into the following unit groups: 3521 Broadcasting and audio-visual technicians 3522 Telecommunications engineering technicians	
Broadcasting and audio-visual technicians	3521	Broadcasting and audio-visual technicians control technical functioning of equipment to record and edit images and sound and for transmitting radio and television broadcasts of images and sounds, as well as other types of telecommunication signals on land	Tasks include - (a) controlling equipment to record sound; (b) controlling equipment to edit and mix image and sound recordings to ensure satisfactory quality and to create special image and sound effects; (c) applying knowledge of principles and pract	Examples of the occupations classified here: - Audio-visual operator - Broadcasting equipment operator - Broadcast technician - Cameraman/woman (motion picture) - Cameraman/woman (video) - Production assistant (media)	Some related occupations classified elsewhere: - Photographer - 3431

					Some related occupations classified elsewhere: - Information and communications technology installers and repairers - 7422 - Engineering Technician (electronics) 3114 - Telecommunications technician - 7422 - Telephone installer - 7422
Telecommunications engineering technicians	3522	Telecommunications engineering technicians perform technical tasks connected with telecommunications engineering research, as well as with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.	Tasks include - (a) providing technical assistance connected with research and the development of telecommunications equipment, or testing prototypes; (b) studying technical material such as blue prints and sketches to determine the method of work to be	Examples of the occupations classified here: - Engineering technician (telecommunications)	
Clerical support workers	4	Clerical support workers record, organise, store, compute and retrieve information related, and perform a number of clerical duties in connection with money-handling operations, travel arrangements, requests for information, and appointments. Most occur	Tasks performed by clerical support workers usually include: stenography, typing, and operating word processors and other office machines; entering data into computers; carrying out secretarial duties; recording and computing numerical data; keeping records	Occupations in this major group are classified into the following sub-major groups: 41 General and keyboard clerks 42 Customer services clerks 43 Numerical and material recording clerks 44 Other clerical support workers Occupations in this sub-major group are classified into the following minor groups:	
General and keyboard clerks	41	General and keyboard clerks record, organize, store and retrieve information and perform a range of clerical and administrative tasks according to established procedures.	sub-major group usually include: operating personal computers; word-processors or typewriters, recording, inputting and processing data using computers; to record input and process text, calculating, bookkeeping and sim	411 General office clerks 412 Secretaries (general) 413 Keyboard operators	
General office clerks	411	General office clerks perform a range of clerical and administrative tasks according to established procedures.	recording, preparing, sorting, classifying and filing information; sorting, opening and sending mail; photocopying and faxing documents; preparing reports and correspondence of a routine nature; recording issue of equipment	Occupations in this minor group are classified into the following unit groups: 4110 General office clerks	
General office clerks	4110	General office clerks perform a range of clerical and administrative tasks according to established procedures.	Tasks include - (a) recording, preparing, sorting, classifying and filing information; (b) sorting, opening and sending mail; (c) photocopying and faxing documents; (d) preparing reports and correspondence of a routine nature; (e) recording issue of	Examples of the occupations classified here: - General office clerk - Office clerk	

Secretaries (general)	412	Secretaries (general) use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for m Tasks performed usually include: checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards, using typewriter, personal computer or other word processing Occupations in this minor group are classified into the following unit groups:	4120 Secretaries (general)
Secretaries (general)	4120	Secretaries (general) use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for m Tasks include - (a) checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards, using typewriter, personal computer or other word processing equipment; Examples of the occupations here: - Secretary - Typing secretary - Word-processing secretary Some related occupations classified elsewhere: - Administrative secretary - 3343 - Executive secretary - 3343 - Legal secretary - 3342 - Medical secretary - 3344	
Keyboard operators	413	Keyboard operators input and process text and data, and prepare, edit and generate documents for storage, processing, publication and transmission. entering data and codes required to process information; retrieving, confirming and updating data in storage and keeping records of data input; taking records of proceedings in rapid shorthand using computerized equipment Occupations in this minor group are classified into the following unit groups:	4131 Typists and word processing operators 4132 Data entry clerks
Typists and word processing operators	4131	Typists and word processing operators type, edit and print using typewriter, personal computer or other word processor, and record oral or written matter in shorthand. Tasks include - (a) typing written material from rough drafts, corrected copies, voice recordings, or shorthand using a computer, word processor or typewriter; (b) checking completed work for proper spelling, grammar, punctuation and formatting; (c) g Examples of the occupations classified here: - Typist - Word processor - Stenographer - Shorthand typist Some related occupations classified elsewhere: - Court reporter - 3343 - Medical transcriptionist - 3344	
Data entry clerks	4132	Data entry clerks enter coded, statistical, financial and other numerical data into electronic equipment, computerized databases, spreadsheets or other data repositories using a keyboard, mouse, or optical scanner, speech recognition software or other da Tasks include - (a) receiving and registering invoices, forms, records and other documents for data capture; (b) entering numerical data, codes and text from source material into computer-compatible storage and processing devices; (c) verifying accurate Examples of the occupations classified here: - Data entry operator - Data input clerk - Payment entry clerk	

Customer services clerks	42	Customer service clerks deal with clients in connection with money-handling operations, travel arrangements, requests for information, making appointments, operating telephone switchboards, and interviewing for surveys or to complete applications for employment.	Tasks performed by workers in this sub-major group include: performing money-handling operations in banks, post offices, betting and gambling establishments or dealing with travel arrangements; supplying information	Occupations in this sub-major group are classified into the following minor groups:
Tellers, money collectors and related clerks	421	Tellers, money collectors and related clerks perform money-handling operations in establishments relating to banking, postal services, betting or gambling, pawning and debt-collecting.	Tasks performed usually include: dealing with clients of banks or post offices in connection with money operations or postal services; receiving and paying off bets on results of sporting events; conducting gambling games; lending money against articles	421 Tellers, money collectors and related clerks Occupations in this minor group are classified into the following unit groups:
Bank tellers and related clerks	4211	Bank tellers and related clerks deal directly with clients of banks or post offices in connection with receiving, changing and paying out money, or providing mail services.	Tasks include - Process customer cash deposits and withdrawals, cheques, transfers, bills, credit card payments, money orders, certified cheques and other related banking transactions; (b) crediting and debiting clients' accounts; (c) paying bills and	4211 Bank tellers and related clerks 4212 Bookmakers, croupiers and related gaming workers 4213 Pawnbrokers and money-lenders 4214 Debt-collectors and related
Bookmakers, croupiers and related gaming workers	4212	Bookmakers and croupiers and related gambling workers determine odds and receive and pay off bets on results of sporting or other events, or conduct games of chance in gambling establishments.	(a) determining risks to decide odds and to hedge or refuse bets; (b) preparing and issuing lists of approximate odds; (c) distributing cards, rolling dice or spinning a roulette wheel; (d) explaining and interpreting operating rules	Examples of the occupations classified here: - Post office counter clerk - Money changer - Bank teller
Pawnbrokers and money-lenders	4213	Pawnbrokers and money-lenders lend money against articles deposited as pledges, or against property or other security.	(a) evaluating articles offered as pledges, calculating interest, and lending money; (b) returning articles when the loan is paid or, in the event of non-payment, selling pledged articles; (c) lending money as personal loans against security	Examples of the occupations classified here: - Money-lender - Pawnbroker
Debt-collectors and related workers	4214	Debt-collectors and related workers collect payments on overdue accounts and bad cheques and collect charity payments.	Tasks include - (a) tracing and locating debtors; (b) telephoning, visiting, or writing to customers to collect money or arrange for later payments; (c) preparing reports including amounts collected and maintain records and files related to collection	Examples of the occupations classified here: - Bill and account collector - Charity collector - Debt collector

Some related occupations classified elsewhere:
- Cashier - 5230

		Occupations in this minor group are classified into the following unit groups:			
Client information workers	422	Client information clerks provide or obtain information in person, by telephone or electronic means such as e-mail in connection with making travel arrangements, describing the products or services of an organization, registering and greeting guests and	Tasks performed usually include: preparing itineraries and making travel and hotel reservations for clients; greeting and receiving clients and visitors; registering accommodation guests; providing information concerning the goods, services or policies	4221 Travel consultants and clerks 4222 Contact centre information clerks 4223 Telephone switchboard operators 4224 Hotel receptionists 4225 Enquiry clerks 4226 Reception	
Travel consultants and clerks	4221	Travel consultants and clerks supply information, arrange travel itineraries, obtain travel and accommodation reservations and organize group tours.	Tasks include - (a) obtaining information about the availability, cost and convenience of different types of transport and accommodation, ascertaining customer's requirements and advising them on travel arrangements; (b) preparing itineraries; (c) mak	Examples of the occupations classified here: - Clerk, ticket issuing/travel - Clerk, travel/airlines - Clerk, travel agency - Consultant, travel - Organizer, travel	Some related occupations classified elsewhere: Travel agency manager - 1439 Conference and event planner - 3332 Ticket issuing clerk (entertainment and sporting events) - 5230
Contact centre information clerks	4222	Contact centre information clerks provide advice and information to clients, respond to queries regarding a company's or an organization's goods, services or policies, and process financial transactions using the telephone or electronic communications m	Tasks include - (a) dealing with incoming calls and messages from clients, whether to answer queries, handle calls for service or sort out complaints; (b) identifying requirements and entering events into a computer system; (c) dispatching tasks to	Examples of the occupations classified here: - Customer contact centre information clerk	Some related occupations classified elsewhere: - Telemarketing salesperson - 5244 - Call centre salesperson - 5244 - Customer contact centre salesperson - 5244 - Telephone operator - 4223 - Market research interviewer - 4227
Telephone switchboard operators	4223	Telephone switchboard operators operate telephone communications switchboards and consoles to establish telephone connections, receive caller inquiries and service problem reports, and record and relay messages to staff or clients.	(a) operating switchboards and consoles to connect, hold, transfer, and disconnect telephone calls; (b) making connections for outgoing calls; (c) dealing with telephone inquiries and recording messages; (d) forwarding messages to sta	Examples of the occupations classified here: - Answering service operator - Telephone Switchboard-operator	Only workers who respond to requests for information and/or handle straightforward transactions are classified in Unit Group 3222, Contact Centre Information Clerks. Those who provide specialized services, such as travel consultants, are classified in th

Hotel receptionists	4224	Hotel receptionists register guests, assign rooms, issue keys, provide information concerning the hotel services, make room reservations, keep a record of rooms available for occupancy and present statements of charges to departing guests and receive pay	Tasks include - (a) maintaining an inventory of rooms available for occupancy, reservations and room assignments; (b) registering arriving guests, assigning rooms; verifying customer's credit and issuing room keys; (c) providing information regarding	Examples of the occupations classified here: - Hotel front desk clerk - Hotel receptionist	
Enquiry clerks	4225	Enquiry clerks respond to personal, written, electronic mail, and telephone enquiries and complaints about the organization's goods, services and policies, provide information and refer people to other sources. They are employed in locations which put them in contact with customers.	Tasks include - (a) answering inquiries about goods, services, and policy and providing information about their availability, location, price and related issues; (b) responding to enquiries about problems and providing advice, information and assistance	Examples of the occupations classified here: - Counter enquiries clerk - Information clerk	
Receptionists (general)	4226	Receptionists (general) receive and welcome visitors, clients, or guests and respond to enquiries and requests including arranging for appointments.	(a) receiving and welcoming visitors, guests or clients; (b) making appointments for clients; (c) dealing with telephone requests for information or appointments; (c) directing clients to appropriate location or person; (e) supplying	Examples of the occupations classified here: - Receptionist - Medical office receptionist	Some related occupations classified elsewhere: Medical secretary - 3344 Hotel receptionist - 4224
Survey and market research interviewers	4227	Survey and market research interviewers interview people and record their responses to survey and market research questions on a range of topics.	Tasks include - (a) contacting individuals by telephone or in person and explaining the purpose of the interview; (b) asking questions following the outlines of questionnaires and surveys; (c) recording responses on paper or entering responses directly	Examples of the occupations classified here: - Market research interviewer - Public opinion interviewer - Survey interviewer	
Client information workers not elsewhere classified	4229	This unit group includes client information workers not included elsewhere in minor group 422, Client information workers. For instance, it includes workers who obtain and process information from clients needed to determine eligibility for services.	In such cases tasks would include - (a) interviewing patients to obtain and process information required to provide hospital services; (b) interviewing applicants for public assistance to gather information pertinent to their application; (c) verifying	Examples of the occupations classified here: - Hospital admissions clerk - Eligibility interviewer - Eligibility specialist	

Numerical and material recording clerks	43	Numerical clerks and material recording clerks obtain, compile and compute accounting, bookkeeping, statistical, financial, and other numerical data, and take charge of cash transactions incidental to business matters. Some occupations classified here ke	Tasks performed by workers in this sub-major group usually include helping with accounting and bookkeeping records and computations; calculating unit production costs; calculating wages and in some cases preparing wage packets and paying wages, taking ch	Occupations in this sub-major group are classified into the following minor groups:
Numerical clerks	431	Numerical clerks obtain, compile and compute accounting, bookkeeping, statistical financial, and other numerical data, and take charge of cash transactions incidental to business matters.	computations; calculating unit production costs; calculating wages and in some cases preparing wage packets and paying wages; taking charge of cash transactions incident	431 Numerical clerks 432 Material-recording and transport clerk classified into the following unit groups: 4311 Accounting and bookkeeping clerks 4312 Statistical, finance and insurance clerks 4313 Payroll clerks
Accounting and bookkeeping clerks	4311	Accounting and bookkeeping clerks compute, classify, and record numerical data to keep financial records complete. They perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining a	Tasks include - (a) checking figures, postings, and documents for correct entry, mathematical accuracy, and proper codes; (b) operating computers programmed with accounting software to record, store, and analyze information; (c) classifying, recording	Examples of the occupations included here: - Accounts clerk - Bookkeeping clerk - Cost computing clerk Some related occupations classified elsewhere: - Accounting assistant- 3313 - Bookkeeper - 3313
Statistical, finance and insurance clerks	4312	Statistical, finance and insurance clerks obtain, compile and compute statistical or actuarial data or perform clerical tasks relating to the transactions of insurance establishments, banks and other financial establishments.	Tasks include - (a) processing insurance enrolments, cancellations, claims transactions, policy changes and payments; (b) obtaining and compiling statistical or actuarial data based on routine or special sources of information; (c) calculating totals,	Examples of the occupations classified here: - Actuarial clerk - Brokerage clerk - Finance clerk - Insurance clerk - Securities clerk - Statistical clerk - Tax clerk Some related occupations classified elsewhere: - Stocks and shares broker- 3311 - Accounting assistant- 3313 - Statistical assistant- 3314 - Trade broker- 3324 - Accounts clerk - 4311 - Bookkeeping clerk- 4311
Payroll clerks	4313	Payroll clerks collect, verify and process payroll information and compute pay and benefit entitlements for employees within a department, company or other establishment.	Tasks include - (a) maintaining records of employee attendance, leave and overtime to calculate pay and benefit entitlements, using manual or computerized systems; (b) preparing and verifying statements of earnings for employees, indicating gross and ne	Some related occupations classified elsewhere: - Accounting assistant- 3313 - Bookkeeper - 3313 - Accounts clerk - 4311 - Bookkeeping clerk- 4311 Example of the occupations included here: - Wages clerk

Material-recording and transport clerks	432	Material-recording and transport clerks keep records of goods produced, purchased, stocked, dispatched, and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight tra	Tasks performed usually include: recording produced, stocked, ordered and dispatched goods; recording production materials received, put into stock or issued; computing quantities of the production materials required at specified dates and helping with	Occupations in this minor group are classified into the following unit groups: 4321 Stock clerks 4322 Production clerks 4323 Transport clerks
Stock clerks	4321	Stock clerks maintain records of goods produced and production materials received, weighed, issued, dispatched or put into stock.	Tasks include - (a) arranging and controlling receipt and dispatch of goods and keeping relevant records; (b) maintaining stock records, verifying issue of goods, estimating needs and making requisitions of new stocks; (c) receiving, storing and issuin	Examples of the occupations classified here: - Freight clerk - Dispatch clerk (stock) - Stock clerk - Storeroom clerk - Weighing clerk
Production clerks	4322	Production clerks compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes, and prepare and check production operation schedules.	Tasks include - (a) computing quantities, qualities and types of materials required by production programme; (b) preparing production requirements schedules, ensuring that materials are available when needed, and keeping relevant records; (c) preparing	Examples of the occupations classified here: - Production clerk - Schedule clerk (materials)
Transport clerks	4323	Transport clerks keep records of operational aspects and coordinate the timing of train, road and air passenger and freight transport, and prepare reports for management.	Tasks include - (a) keeping records of operational aspects and coordinating the timing of passenger and freight transport; (b) directing train routings within a division or zone of a railway system and keeping related records; (c) directing, controllin	Examples of the occupations classified here: - Clerical controller (transport service) - Clerical dispatcher (transport service)
Other clerical support workers	44	Other clerks perform clerical duties in newspapers, courts, libraries and post offices, file documents, prepare information for processing, maintain personnel records, check material for consistency with original source material and write on behalf of il	major group usually include: recording information regarding acquisition, issue and return of library books; maintaining personnel records; classifying and filing various documents and other records; sorting, recording a	Occupations in this sub-major group are classified into the following minor group: 441 Other clerical support workers
Other clerical support workers	441	Other clerks perform clerical duties in newspapers, courts, libraries and post offices, file documents, prepare information for processing, check material for consistency with original source material, maintain personnel records and write on behalf of pe	Tasks performed usually include: recording information regarding acquisition, issue and return of library books; classifying and filing various documents and other records; maintaining personnel records; sorting, recording and delivering mail from post o	Occupations in this minor group are classified into the following unit groups: 4411 Library clerks 4412 Mail carriers and sorting clerks 4413 Coding, proof-reading and related clerks 4414 Scribes and related workers 4415 Filing and copying clerks 441

Library clerks	4411	Library clerks issue and receive library materials, sort and shelf books, sound and vision recordings, periodicals, journals, magazines and newspapers and provide general library information to library users.	Tasks include - (a) issuing and receiving library books and other materials; (b) reshelving books and other library materials; (c) performing clerical activities such as manual and electronic filing, word processing and occasional typing; (d) mainta	Examples of the occupations classified here: - Library clerk - Library filer
Mail carriers and sorting clerks	4412	Mail carriers and sorting clerks perform sorting, recording, delivery and other duties in connection with mail services from post offices or related organizations, as well as from or within an establishment.	Tasks include - (a) performing mail-handling duties in public post offices or privately owned delivery establishments; (b) sorting and delivering mail to private houses and businesses; (c) providing delivery confirmation records when requested by the	Examples of the occupations classified here: - Mail clerk - Post carrier - Postman/woman
Coding, proof-reading and related clerks	4413	Coding, proof-reading, and related clerks convert information into codes, verify and correct proofs, and perform a number of miscellaneous clerical duties.	Tasks include - (a) converting information into codes and classifying information by codes for data-processing purposes; (b) comparing proofs of texts and related material prepared for printing with original material, correcting errors and marking texts	Examples of the occupations classified here: - Coding clerk - Proof reading clerk
Scribes and related workers	4414	Scribes and related workers write letters and complete forms on behalf of illiterate persons.	Tasks include - (a) reading letters and other written matter to persons who are unable to read or write and providing necessary interpretation and information; (b) writing letters and completing forms on behalf of others; (c) offering advice to indivi	Examples of the occupations classified here: - Scribe
Filing and copying clerks	4415	Filing and copying clerks file correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. They locate and remove material from file when requested and photocopy, scan or fax do	Tasks include - (a) sorting or classifying materials according to guidelines such as content, purpose, user criteria, or chronological, alphabetical, or numerical order; (b) filing material in drawers, cabinets and storage boxes; (c) locating and	Examples of the occupations classified here: - Copying clerk - Filing clerk

Personnel clerks	4416	Personnel clerks maintain and update personnel records such as information on transfers and promotions, performance evaluations, employee leave taken and accumulated, salaries, qualifications and training.	Tasks include - (a) updating information on, employment history, salaries, performance evaluations, qualifications and training and leave taken and accumulated; (b) initiating records for newly appointed workers and checking records for completeness; (c)	Examples of the occupations classified here: - Human resource assistant - Human resource clerk
Clerical support workers not elsewhere classified	4419	This unit group covers clerical support workers not classified elsewhere in major group 4, Clerical support workers. For instance, the group includes, correspondence clerks, press clippers and publication clerks.	In such cases tasks would include - (a) receiving customers' orders for classified advertising, writing and editing copy, calculating advertising rates and billing customers. (b) writing business and government correspondence such as replies to requests	Examples of the occupations classified here: - Advertising clerk - Correspondence clerk - Directory compiler - Publication clerk - Press clipper
Service and sales workers	5	Service and sales workers provide personal and protective services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments.	Tasks performed by service and sales workers usually include: organizing and providing services during travel; housekeeping; preparing and serving of food and beverages; caring for children; providing personal and basic health care at homes or in institutions.	Occupations in this major group are classified into the following sub-major groups: 51 Personal service workers 52 Sales workers 53 Personal care workers 54 Protective services workers
Personal service workers	51	Personal service workers provide personal services related to travel, housekeeping, catering, child and personal care.	Tasks performed by workers in this sub-major group usually include: organizing and providing of services during travel; housekeeping; preparing and serving food and beverages; providing personal and basic health care; ensuring the comfort and safety of passengers; serving food and refreshments; providing information and answering questions in connection with travel; collecting or issuing tickets on board public transport; accompanying	Occupations in this minor group are classified into the following unit groups: 5111 Travel attendants, conductors and guides 5112 Transport conductors 5113 Travel guides
Travel attendants, conductors and guides	511	Travel attendants, conductors and guides provide various personal services in connection with travelling by aircraft, train, ship, bus or other vehicle, and escorting individuals and groups on travel tours, sightseeing visits and excursions.		

Travel attendants and travel stewards

5111

Travel attendants and travel stewards ensure the comfort and safety of passengers, serve meals and beverages and render personal services, usually on aircraft and onboard ships. They may plan and coordinate housekeeping and social activities on ships.

- Tasks include -
- (a) greeting passengers entering aircraft or ships, checking tickets or boarding passes, and directing them to their seats or berths;
 - (b) announcing, explaining and demonstrating safety and emergency procedures, such as the use of oxygen

- Examples of the occupations classified here:
- Airport attendant
 - Flight attendant
 - Ship steward

Transport conductors

5112

Transport conductors check and issue tickets and ensure the safety and comfort of passengers on trains, trams, buses and other public transport vehicles.

- Tasks include -
- (a) collecting and issuing tickets, passes or fares, and checking the validity of tickets issued previously;
 - (b) attending to sleeping-cars and their occupants on passenger trains;
 - (c) providing assistance with boarding, seating and luggage

- Examples of the occupations classified here:
- Bus conductor
 - Cable car conductor
 - Ticket inspector (public transport)
 - Train conductor
 - Tram conductor

Travel guides	5113	Travel guides accompany individuals or groups on trips, sightseeing tours and excursions and on tours of places of interest such as historical sites, industrial establishments and theme parks. They describe points of interest and provide background information.	Tasks include - (a) escorting and guiding tourists on cruises and sightseeing tours; (b) escorting visitors through places of interest such as museums, exhibitions, theme parks, factories and other industrial establishments; (c) describing and providing information.	Examples of the occupations classified here: - Art gallery guide - Tour escort
Cooks	512	Cooks plan, organize, prepare and cook meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.	Tasks performed usually include: planning meals, preparing and cooking foodstuffs; planning, supervising and coordinating the work of kitchen helpers; checking the quality of food; weighing, measuring and mixing ingredients according to recipes and portions.	Occupations in this minor group are classified into the following unit group: - 5120 Cook
Cooks	5120	Cooks plan, organize, prepare and cook meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.	Tasks include - (a) planning meals, preparing and cooking foodstuffs; (b) planning, supervising and coordinating the work of kitchen helpers; (c) checking the quality of food; (d) weighing, measuring and mixing ingredients according to recipes and portions. Tasks performed usually include: assisting in keeping bar properly stocked; washing used glassware and cleaning bar area; serving alcoholic and non-alcoholic drinks at a bar; setting tables with clean linen, cutlery, glassware and crockery.	Examples of the occupations classified here: - Cook Some related occupations classified elsewhere: - Chef - 3434 - Fast food preparer - 9411
Waiters and bartenders	513	Waiters and bartenders serve food and beverages in commercial dining and drinking places, clubs, institutions and canteens, on board ships and on passenger trains.	Tasks performed usually include: assisting in keeping bar properly stocked; washing used glassware and cleaning bar area; serving alcoholic and non-alcoholic drinks at a bar; setting tables with clean linen, cutlery, glassware and crockery.	Occupations in this minor group are classified into the following unit groups: 5131 Waiters 5132 Bartenders
Waiters	5131	Waiters serve food and beverages at tables in dining and drinking places, clubs, institutions and canteens, on board ships and on passenger trains.	Tasks include - (a) setting tables with clean linen, cutlery, crockery and glassware; (b) greeting customers and presenting them with menus and beverage lists; (c) advising on food and beverage choices; (d) taking orders for food and drinks and passing them to the kitchen.	Example of the occupations classified here: - Waiter Some related occupations classified elsewhere: - Cafe manager -1412 - Restaurant manager -1412 - Bartender - 5132

Bartenders	5132	Bartenders prepare, mix and serve alcoholic and non-alcoholic drinks directly to customers over a bar or counter, or through waiters.	Tasks include - (a) taking beverage orders from serving staff or directly from patrons; (b) preparing and serving alcoholic and non-alcoholic drinks at a bar; (c) washing used glassware, cleaning and maintaining bar service areas, tea and coffee-making	Examples of the occupations classified here: - Bartender	Some related occupations classified elsewhere: - Waiter - 5131
Hairdressers, beauticians and related workers	514	Hairdressers, beauticians and related workers cut and dress hair, shave and trim beards, give beauty treatment, apply cosmetics and make-up and give other kinds of treatment to individuals in order to improve their appearance.	Tasks include - (a) discussing customers' requirements; (b) cutting and dressing hair; (c) shaving and trimming beards; (d) giving beauty treatment; and applying cosmetics and make up; (d) shaping and polishing finger- and toe-nails and treating min	Occupations in this minor group are classified into the following unit groups: 5141 Hairdressers 5142 Beauticians and related workers	
Hairdressers	5141	Hairdressers cut, style, colour, straighten and permanently wave hair, shave or trim facial hair and treat scalp conditions.	Tasks include - (a) cutting, washing, tinting and waving hair; (b) shaving or trimming beards and moustaches; (c) giving scalp treatment; (d) fitting wigs according to customers' requirements; (e) providing advice on hair care, beauty products and ha	Examples of the occupations classified here: - Barber - Hairstylist - Hairdresser - Hair care specialist	
Beauticians and related workers	5142	Beauticians and related workers, give facial and body beauty treatments, apply cosmetics and make-up and give other kinds of treatment to individuals in order to improve their appearance.	Tasks include - (a) cleaning and applying creams, lotions and related products to face and parts of body; (b) giving facial and body massage; (c) applying make-up to clients of a beauty parlour or to actors and other performers; (d) cleaning, shapi	Examples of the occupations classified here: - Bath attendant - Beautician - Pedicurist - Manicurist - Make-up artist - Slimming consultant	

Building and housekeeping supervisors	515	Building and housekeeping supervisors coordinate, schedule, and supervise the work of cleaners and other housekeeping staff in commercial, industrial and residential premises. They take responsibility for housekeeping and caretaking functions in hotels, o	tasks and inspecting building areas to see that cleaning, housekeeping and maintenance work has been done properly; issuing of supplies and equipment and inventory stocks to ensure that the supplies on hand are adequate;	classified into the following unit groups: 5151 Cleaning and housekeeping supervisors in offices, hotels and other establishments 5152 Domestic housekeepers 5153 Building caretakers	
Cleaning and housekeeping supervisors in offices, hotels and other establishments	5151	Cleaning and housekeeping supervisors in offices, hotels and other establishments organize, supervise and carry out housekeeping functions in order to keep clean and tidy the interiors, fixtures and facilities in these establishments.	(a) engaging, training, discharging organizing and supervising helpers, cleaners and other housekeeping staff; (b) purchasing or controlling the purchase of supplies; (c) controlling storage and issue of supplies; (d) supervising general welfare and	Examples of the occupations classified here: - Housekeeper (hotel) - Matron (housekeeping)	Some related occupations classified elsewhere: - Hotel manager - 1411 - Building caretaker - 5153 - Bed and breakfast operator - 5152 - Domestic housekeeper - 5152 - Domestic cleaner - 9111
Domestic housekeepers	5152	Domestic housekeepers organize, supervise and carry out housekeeping functions in private households with or without the support of subordinate staff.	(a) supervising workers employed in households as domestic staff; (b) purchasing or controlling the purchase of supplies; (c) controlling storage and issue of supplies; (d) assisting in cases of minor injury or illness by performing tasks such as taki	Examples of the occupations classified here: - Bed and breakfast operator - Butler - Domestic Housekeeper	Some related occupations classified elsewhere: - Hotel manager - 1411 Operators of small accommodation establishments, such as some bed and breakfast establishments and small guest houses, that provide accommodation and limited meal services to clients effectively as paying guests in private households, and for whom the man
Building caretakers	5153	Building caretakers take care of apartment houses, hotels, offices, churches and other buildings and maintain them and associated repairs and maintenance of building grounds in a clean and orderly condition. They may supervise other workers and contractors depending on the size and nature	Tasks include - (a) supervising the work of cleaning, housekeeping and building maintenance staff and contractors; (b) participating in cleaning, simple repairs and maintenance of building interiors; (c) tending furnaces and boilers to ensure provision	Examples of the occupations classified here: - Caretaker - Concierge (building) - Janitor - Sexton	
Other personal services workers	516	Other personal services workers recount past and predict future events in persons' lives, provide companionship and other personal services, groom, train and care for animals, provide embalming and funeral services train people to drive vehicles.	Tasks performed usually include: casting horoscopes; providing companionship or valet services and other personal services to clients; providing embalming and funeral services; feeding, handling, training and grooming animals; instructing students under	Occupations in this minor group are classified into the following unit groups: 5161 Astrologers, fortune-tellers and related workers 5162 Companions and valets 5163 Undertakers and embalmers 5164 Pet groomers and animal care workers 5165 Driving i	

Astrologers, fortune-tellers and related workers	5161	Astrologers, fortune-tellers and related workers recount past and predict future events in persons' lives by practicing astrology, on the basis of characteristics of the clients' palms, samples of playing cards drawn or other techniques.	Tasks include - (a) casting horoscopes of individuals at birth or later to recount past and forecast future events and conditions of their lives; (b) interpreting characteristics of clients' palms, samples of playing cards, position of tea leaves or	Examples of the occupations classified here: - Astrologer - Fortune-teller - Numerologist - Palmist	Some related occupations classified elsewhere: - Witch doctor- 3230 - Faith healer - 3413
Companions and valets	5162	Companions and valets provide companionship and attend to various needs of the employer.	(a) providing companionship to employer by accompanying him/her to various places, reading, conversing and participating in activities such as sports; (b) assisting in entertaining visitors in employer's home;	Examples of the occupations classified here: - Companion - Personal maid - Valet	Some related occupations classified elsewhere: - Social escort - 5169 - Dancing partner - 5169
Undertakers and embalmers	5163	Undertakers and embalmers perform various tasks in the disposal of dead human bodies.	Tasks include - (a) making arrangements for, and conducting, funerals, cremations and burials; (b) embalming human bodies to retard or arrest the process of decay; (c) conforming to health and sanitation and ensuring that legal requirements concernin	Examples of the occupations classified here: - Embalmer - Undertaker	
Pet groomers and animal care workers	5164	Pet groomers and animal care workers feed, handle, train and groom animals and assist veterinarians, animal health technologists and technicians in veterinary facilities, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet sho	Tasks include - (a) bathing and feeding animals; (b) leading or carrying animals to treatment room and holding them during treatment; (c) cleaning and sterilising veterinary surgical instruments; (d) labelling drugs, chemicals and other pharmaceutical	Examples of the occupations classified here: - Dog trainer - Horse breaker - Veterinary aid - Zoo keeper	

Driving instructors	5165	Driving instructors teach people how to drive motor vehicles. This unit group covers personal service workers not classified elsewhere in Sub-major group 51, Personal service workers. For instance, those who provide services and companionship as dancing partners, social escorts, and night-club hostesses or hosts a	Tasks include - (a) instructing students under actual driving conditions, and explaining and demonstrating the operation of brakes, clutch, gear selection, automatic transmission, signals and lights; (b) teaching road traffic regulations; (c) teaching In such cases tasks would include - (a) accompanying clients to restaurants and other outings; (b) acting as a dancing partner; (c) welcoming clients to a night-club and ensuring that they are entertained well.	Examples of the occupations classified here: - Driving instructor	Some related occupations classified elsewhere: - Flying instructor- 3153
Personal services workers not elsewhere classified	5169			Examples of the occupations classified here: - Social escort - Club host - Club hostess - Dancing partner	Some related occupations classified elsewhere: - Companion - 5162 Countries that have a requirement to compile statistics on those who provide sexual services to clients on a commercial basis should include them in unit group 5169, Personal service workers not elsewhere classified. If there is a need, in national adap
Sales workers	52	Sales workers sell and demonstrate goods in wholesale or retail shops, at stalls and markets, door-to-door, via telephone or customer contact centres. They may record and accept payment for goods and services purchased, and may operate small retail outlet	Tasks performed by workers in this sub-major group may include the following: selling goods in wholesale or retail establishments or at street or market stalls, door-to-door, via telephone or customer contact centres; demonstrating and displaying goods	Occupations in this sub-major group are classified into the following minor groups: 521 Street and market salespersons 522 Shop salespersons 523 Cashiers and ticket clerks 524 Other sales worker	Shop managers and sales managers are classified in Major group 1, Managers. Technical, medical and ICT sales professionals are classified in Major Group 2, Professionals. Commercial sales and insurance representatives, finance and trade brokers, are class
Street and market salespersons	521	Street and market salesperson sell goods from stalls on markets or in streets and prepare and sell hot or cold foods and beverages ready for immediate consumption in streets and public places.	Tasks performed usually include: obtaining permission to set up a stand at a particular place in streets, markets or other open spaces or to sell food and drinks on the street; buying or contracting a regular supply of products to be sold; erecting and d	Occupations in this minor group are classified into the following unit groups: 5211 Stall and market salespersons 5212 Street food salespersons	Vendors in streets and public places of non-food items (or of pre-packaged non-perishable food items such as confectionary) from pushcarts, trucks, trays or baskets are classified in minor group 952, Street vendors (excluding food).
Stall and market salespersons	5211	Stall and market salespersons sell various goods from stalls on open-air or covered markets or from stalls in streets or other open spaces.	Tasks include - (a) obtaining permission to set up a stand at a particular place in streets, markets or other open spaces; (b) determining product mix, stock and price levels for goods to be sold; (c) buying or contracting a regular supply of goods t	Examples of the occupations classified here: - Kiosk salesperson - Market vendor - Street stall sales assistant - Market stallholder	Some related occupations classified elsewhere: Street food vendor - 5212 Street vendor (excluding food) - 9520 Shopkeeper - 5221 Shop sales assistant - 5223 Food service counter attendant - 5246 Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stall

Street food salespersons	5212	Street food salespersons prepare and sell, or sell previously prepared, hot or cold foods and beverages ready for immediate consumption in streets and public places such as stations, cinemas, or theatres.	Tasks include - (a) obtaining permission or a licence, where required, to sell food and drinks on the street or in a public place; (b) obtaining food and drinks for sale; (c) preparing, either beforehand or on the spot, food and drinks for sale; (d)	Examples of the occupations classified here: - Street food vendor - Hawker (food)	Some related occupations classified elsewhere: Cook - 5120 Fast food preparer - 9411 Food service counter attendant - 5246 Street vendor (excluding food) - 9520	Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stall
Shop salespersons	522	Shop salespersons sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain functions and qualities of these goods and services, and may operate small shops or supervise the activities of	Tasks performed usually include: determining customer requirements and advising on product range, price, delivery, warranties and product use and care; demonstrating and explaining and selling goods and services to customers; accepting payment for by a v	Occupations in this minor group are classified into the following unit groups: 5221 Shopkeepers 5222 Shop supervisors 5223 Shop sales assistants		
Shopkeepers	5221	Shopkeepers operate small retail shops either independently or with support from a small number of others.	Tasks include - (a) determining product mix, stock and price levels for goods to be sold; (b) purchasing and ordering goods for sale from markets, wholesalers and other suppliers (c) budgeting and maintaining records of stock levels and financial tr	Examples of the occupations classified here: - Shopkeeper - Grocer - Newsagent	Some related occupations classified elsewhere: Shop manager - 1420 Market stall holder - 5211	Only operators of small shops for whom the management and supervision of staff is not a significant component of the work are classified in Unit group 5221, Shopkeepers. Operators of shops where management tasks and supervision of staff are significant an
Shop supervisors	5222	Shop supervisors supervise and coordinate the activities of shop sales assistants, checkout operators and other workers in retail and wholesale shops such as supermarkets and department stores.	Tasks include - (a) planning and preparing work schedules and assigning staff to specific duties; (b) instructing staff on sales procedures, including how to handle difficult or complex cases; (c) ensuring that customers receive prompt service; (d) p	Examples of the occupations classified here: - Checkout supervisor - Supermarket supervisor	Some related occupations classified elsewhere: Shop managers - 1420 Shopkeepers - 5221 Street stall salesperson - 5211	Operators of small shops for whom the management and supervision of staff is not a significant component of the work are classified in Unit group 5221, Shopkeepers. Shop managers who, in addition to supervision of staff, perform management tasks such as

Shop sales assistants	5223	Shop sales assistants sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments, and explain the functions and qualities of these goods and services.	Tasks include - (a) determining customer requirements and advising on product range, price, delivery, warranties and product use and care; (b) demonstrating and explaining to customers the establishment's goods and services (c) selling goods and ser	Examples of the occupations classified here: - Salesperson (retail establishment) - Salesperson (wholesale establishment) - Shop assistant	Some related occupations classified elsewhere: Shop manager - 1420 Kiosk salesperson - 5211 Market salesperson - 5211 Street stall salesperson - 5211 Street food vendor - 5212 Shopkeeper - 5221 Checkout operator - 5230 Food service counter attend
Cashiers and ticket clerks	523	Cashiers and ticket clerks operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices.	Tasks include: receiving and verifying payment by cash, cheque credit card our automatic debit in stores, ticket offices, or similar establishments; giving change and issuing receipts; issuing tickets at ticket offices, and taking corresponding payments;	Occupations in this minor group are classified into the following unit groups: 5230 Cashiers and ticket clerks	
Cashiers and ticket clerks	5230	Cashiers and ticket clerks operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices.	Tasks include - (a) receiving and verifying payment by cash, cheque credit card our automatic debit in stores, ticket offices, or similar establishments; (b) giving change and issuing receipts; (c) issuing tickets for attendance at sporting and cultur	Examples of the occupations classified here: - Store Cashier - Ticket issuing clerk (entertainment and sporting events) - Checkout operator - Service station console operator	Ticket issuing clerk (travel) - 4221 Shop sales assistant - 5223 Service station attendant - 5245 Checkout supervisor - 5222
Other sales workers	524	Other sales workers display, demonstrate, display and sell goods, food and services, usually to the general public, in contexts other than sales in markets, streets and shops. It includes sales workers not classified in minor groups 521 Street and marke	Tasks performed may include: displaying and demonstrating items for sale; posing for photographs, film and video, advertising, still photography or for artistic creation; answering questions and offering advice on the use of goods and services; taking or	Occupations in this minor group are classified into the following unit groups: 5241 Fashion and other models 5242 Sales demonstrators 5243 Door to door salespersons 5244 Contact centre salespersons 5245 Service station attendants 5246 Food service	Sales managers are classified in major group 122 Sales, marketing and development managers. Technical, medical and ICT sales professionals are classified in minor group 243, Sales, marketing and public relations professionals. Commercial sales and insura
Fashion and other models	5241	Fashion and other models wear and display clothing and accessories and pose for photographs, film and video, advertising, still photography or for artistic creation.	Tasks include - (a) dressing in sample apparel of new or current styles or of type wanted by customer; (b) walking, turning and posing to demonstrate style and characteristics of garments, fashion accessories and other merchandise to best advantage; (c)	Examples of the occupations classified here: - Advertising model - Artist's model - Fashion model	Some related occupations classified elsewhere: Actor - 2655

Sales demonstrators	5242	Tasks include - (a) setting up displays and demonstrating articles for sale to inform customers about their characteristics and mode of use, as well as to stimulate buying interest; Sales demonstrators demonstrate goods at (b) answering questions and offering commercial premises, exhibitions and private advice on the use of goods; homes. (c)	Examples of the occupations classified here: - Demonstrator - Sales merchandiser	Some related occupations classified elsewhere: - Market salesperson - 5211 - Street stall salesperson - 5211 - Door to door salesperson - 5243
Door to door salespersons	5243	Tasks include - (a) giving details of various goods or services and of terms of sale by visiting clients and potential clients door to door; Door to door salespersons sell goods and services and solicit business for an establishment, by approaching or visiting potential customers, usually residents in private homes, by going from door to door. (b) demonstrating or describing goods or services on offer; (c) recording orders and transactions and placing	Examples of the occupations classified here: - Door to door salesperson - Door to door sales representative - Party plan salesperson	Some related occupations classified elsewhere: - Commercial sales representative - 3322 - Street vendor - 9520
Contact centre salespersons	5244	Tasks include - (a) promoting goods and services by telephone or electronic mail, following scripts and working form lists of contacts; Contact centre salespersons contact existing and prospective customers, using the telephone or other electronic communications media, to promote goods and services, obtain sales and arrange sales visits. They may work from a customer contact centre or fr (b) creating interest in goods and services, and seeking a sale or agreement to see sales representatives; (c) arra	Examples of the occupations classified here: - Telemarketing salesperson, - Call centre salesperson, - Customer contact centre salesperson, - Internet salesperson - Telemarketer	Some related occupations classified elsewhere: Contact centre information clerk - 4222
Service station attendants	5245	(a) filling fuel tanks and containers to level specified by customer; Service station attendants sell fuel, lubricants and other automotive products and other vehicle fluid levels; (b) checking and replenishing air pressure in vehicle tyres, and oil and provide services such as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles. (c) washing vehicle windscreens and windows; (d) performing minor repair work	Examples of the occupations classified here: - Marina attendant - Service station attendant	Some related occupations classified elsewhere: - Service station cashier - 5230 - Shop sales assistant - 5223 - Food service counter attendant - 5246 Workers who accept payment or sell goods in shops at service stations but do not provide forecourt services such as assistance with fuel, lubricants, cleaning and maintenance are excluded from Unit group 5245, Service station attendants.

			Tasks include - (a) serving food to customers at counters; (b) ascertaining the products desired by the customer, assisting customer in making a choice and taking orders; (c) cleaning, peeling, slicing and trimming foodstuffs using manual and elect		Some related occupations classified elsewhere: Cook - 5120 Kiosk salesperson - 5211 Market salesperson - 5211 Street stall salesperson - 5211 Waiter - 5131 Bartender - 5132 Fast food preparer - 9411	
Food service counter attendants	5246	Food service counter attendants serve customers at food counters and finish preparation of simple food items in restaurants, cafes, hotels, fast food outlets, cafeterias, hospitals and other settings. This unit group includes sales workers not classified elsewhere in sub major group 52, Sales workers.		Examples of the occupations classified here: - Cafeteria counter attendant - Salad bar attendant Examples of the occupations classified here: Rental salesperson Occupations in this sub-major group are classified into the following minor groups: 531 Child care workers and teachers' aides		Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stall
Sales workers not elsewhere classified	5249					
Personal care workers	53	Personal care workers provide care, supervision and assistance for children, patients and elderly, convalescent or disabled persons in institutional and residential settings.	Tasks performed by workers in this sub-major group usually include: assisting with mobility, washing and other personal needs; assisting children individually to learn social skills; supervising and participating in assisting children individually to learn social skills; demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and preschool	5312 Teachers' aides		
Child care workers and teachers' aides	531	Child care workers and teachers' aides provide care and supervision for children in schools, residential homes and child care facilities.		Occupations in this minor group are classified into the following unit groups: 5311 Child care workers 5312 Teachers' aides		
			Tasks include - (a) assisting children to wash, dress and feed themselves; (b) taking children to and from school or outdoors for recreation; (c) playing games with children, or entertaining them by reading or storytelling; (d) assisting in the prepa	Examples of the occupations classified here: - Baby-sitter - Child care worker - Creche ayah - Family day care worker - Nanny - Out of school hours care worker	Some related occupations classified elsewhere: Early childhood educator - 2342	
Child care workers	5311	Child-care workers provide care and supervision for children in residential homes and in before-school, after-school, vacation and day care centres.				

Teachers' aides	5312	Teachers' aides perform non-teaching duties to assist teaching staff, and provide care and supervision for children in schools and pre-schools.	(a) demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and preschools; (b) preparing indoor and outdoor areas for learning and recreational activities	Examples of the occupations classified here: - Pre-school assistant - Teacher's assistant
Personal care workers in health services	532	Personal care workers in health services provide personal care and assistance with mobility and activities of daily living to patients, and elderly, convalescent and disabled people in health care and residential settings.	assisting patients with mobility, personal care and communication needs; sterilising surgical and other instruments and equipment; observing and reporting concerns to the appropriate medical or social service workers, prep	classified into the following unit groups: 5321 Health care assistants 5322 Home-based personal care workers 5329 Personal care workers in health services not elsewhere classified
Health care assistants	5321	Health care assistants provide direct personal care and assistance with activities of daily living to patients and residents in a variety of health care settings such as hospitals, clinics, and residential nursing care facilities. They generally work in	Tasks include - (a) providing care, support and treatment to patients and residents of medical, rehabilitative and residential care facilities as per treatment plans established by medical, nursing and other health professionals; (b) assisting patient	Examples of the occupations classified here: - Birth assistant (clinic or hospital) - Nursing aide (clinic or hospital) - Patient care assistant - Psychiatric aid
Home-based personal care workers	5322	Home-based personal care workers provide routine personal care and assistance with activities of daily living to persons who are in need of such care due to effects of ageing, illness, injury, or other physical or mental condition in private homes and	Tasks include - (a) assisting clients with personal and therapeutic care needs such as personal hygiene, feeding, dressing, physical mobility and exercise, communication, taking oral medications and changing dressings, usually as per care plans estab	Some related occupations classified elsewhere: - Nurse (professional) - 2221 - Nurse (associate professional) - 3221 - Ambulance worker - 3258 - Nursing aide (home) - 5322 Some related occupations classified elsewhere: - Nurse (professional) - 2221 - Social worker (professional) - 2635 - Nurse (associate professional) - 3221 - Social worker (associate professional) - 3412 - Nursing aide (clinic or hospital) - 5321

Workers who provide personal care to residents of institutions and facilities that have permanent medical or nursing supervision (such as hospitals, rehabilitation centres, residential nursing care facilities and nursing homes) and therefore work under t

Workers who provide personal care to residents of medical and health care facilities that have permanent medical or nursing supervision (such as in hospitals and nursing care homes), and therefore work under the direct supervision of health professional

Personal care workers in health services not elsewhere classified	5329	This unit group covers personal care workers in health services not classified elsewhere in Minor group 532 Personal care workers in health services. For instance the group includes occupations such as Dental aid, Sterilization aid, Hospital orderly, M In such cases tasks would include - (a) cleaning and sterilizing surgical, dental and pharmaceutical instruments - bottles, beakers and other equipment; (b) labelling drugs, chemicals and other pharmaceutical preparations and replenishing stock on shelves Examples of the occupations classified here: - Dental aid - First-aid attendant - Hospital orderly - Medical imaging assistant - Pharmacy aid - Phlebotomist - Sterilization aid
Protective services workers	54	Protective services workers protect individuals and property against fire and other hazards, maintain law and order and enforce laws and regulations. Tasks performed by workers in this sub-major group usually include: preventing, fighting and extinguishing fires; rescuing people from burning buildings and accident sites and those trapped in dangerous situations; maintaining law and order, enforcing law Occupations in this sub-major group are classified into the following minor group: 541 Protective services workers
Protective services workers	541	Protective services workers protect individuals and property against fire and other hazards, maintain law and order and enforce laws and regulations. Tasks performed usually include: preventing, fighting and extinguishing fires; rescuing people from burning buildings and accident sites and those trapped in dangerous situations; maintaining law and order, enforcing laws and regulations, patrolling publ Occupations in this minor group are classified into the following unit groups: 5411 Fire-fighters 5412 Police officers 5413 Prison guards 5414 Security guards 5419 Protective services workers not elsewhere classified
Firefighters	5411	Firefighters prevent, fight and extinguish fires and assist in other emergencies, protect life and property and conduct rescue efforts. Tasks include - (a) responding to fire alarms and other calls for assistance, such as automobile and industrial accidents, bomb threats and other emergencies; (b) controlling and extinguishing fires using manual and power equipment and firefighting che Examples of the occupations classified here: - Firefighter - Forest firefighter Some related occupations classified elsewhere: - Fire inspector - 3112 - Fire prevention specialist - 3112 - Fire investigator - 3119
Police officers	5412	Police officers maintain law and order, patrolling public areas, enforcing laws and regulations and arresting suspected offenders. Tasks include - (a) patrolling a specific area to maintain public order, respond to emergencies, protect people and property and enforce laws and regulations; (b) identifying, pursuing and arresting suspects and perpetrators of criminal acts; Examples of the occupations classified here: - Constable - Police patrol officer - Police officer Some related occupations classified elsewhere: - Police chief constable - 1112 - Police commissioner - 1112 - Police inspector-general - 1112 - Police detective - 3355 - Police inspector - 3355

Prison guards	5413	Prison guards watch over and maintain order among inmates of prisons, reformatories or penitentiaries.	Tasks include - (a) searching arriving prisoners, putting their valuables in safekeeping, escorting prisoners to cells and locking them in; (b) making periodic inspection tours of cells and inspecting and maintaining the security of locks, windows, d	Examples of the occupations classified here: - Prison guard
Security guards	5414	Security guards patrol or monitor premises to guard property against theft and vandalism. They control access to establishments and maintain order and enforce regulations at public events and within establishments.	Tasks include - (a) patrolling premises and checking doors, windows and gates to prevent and detect signs of unauthorised entry; (b) controlling access to establishments, monitoring and authorizing the entrance or departure of employees and visitors, c	Examples of the occupations classified here: - Bodyguard - Doorkeeper - Museum guard - Security guard - Security patrolman/woman - Watchman/woman Some related occupations classified elsewhere: - Lifeguard - 5419 - Beach patrolman/woman - 5419
Protective services workers not elsewhere classified	5419	This unit group covers protective services workers not classified elsewhere in Minor group 541, Protective services workers. For instance, the group includes lifeguards, crossing guards and animal control officers.	Tasks include - (a) patrolling beaches and swimming pools to prevent accidents and to rescue bathers from drowning; (b) monitoring traffic flow to locate safe gaps through which pedestrians can cross streets; (c) responding to citizen complaints conce	Examples of the occupations classified here: - Animal control officer - Beach patrolman/woman - Game warden - Crossing guard - Lifeguard - Traffic warden Occupations in this major group are classified into the following sub-major groups: Some related occupations classified elsewhere: - Doorkeeper - 5414 - Museum guard - 5414 - Watchman - 5414 - Watchwoman - 5414
Skilled agricultural, forestry and fishery workers	6	Skilled agricultural, forestry and fishery workers grow and harvest field or tree and shrub crops, gather wild fruits and plants, breed, tend or hunt animals, produce a variety of animal husbandry products, cultivate, conserve and exploit forests, bree	Tasks performed by skilled agricultural forestry and fishery workers usually include: preparing the soil; sowing, planting, spraying, fertilising and harvesting field crops; growing fruit and other tree and shrub crops; growing garden vegetables and h	61 Market-oriented skilled agricultural workers 62 Market-oriented skilled forestry, fishery and hunting workers 63 Subsistence farmers, fishers, hunters and gatherers
Market-oriented skilled agricultural workers	61	Market-oriented skilled agricultural workers plan, organize and perform farming operations to grow and harvest field or tree and shrub crops and produce a variety of animals and animal products for sale or delivery on a regular basis to wholesale buyer	Tasks performed by workers in this sub-major group usually include: preparing the soil; sowing, planting, spraying, fertilising and harvesting field crops, growing fruit and other tree and shrub crops; growing garden vegetables and horticultural produc	Occupations in this sub-major group are classified into the following minor groups: 611 Market gardeners and crop growers 612 Animal producers 613 Mixed crop and animal producers

Market gardeners and crop growers	611	Market gardeners and crop growers plan, organize and perform operations to grow and harvest field crops, to grow fruit and other tree and shrub crops, to grow garden vegetables and medicinal and other plants, and to produce horticultural and horticultural products. Tasks performed usually include: monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly; purchasing seeds, bulbs and fertiliser; investing in land and land improvements.	Occupations in this minor group are classified into the following unit groups: 6111 Field crop and vegetable growers 6112 Tree and shrub crop growers 6113 Gardeners, horticultural and nursery growers 6114 Mixed crop growers
Field crop and vegetable growers	6111	Field crop and vegetable growers plan, organize and perform farming operations to grow and harvest various types of field crop such as wheat and other cereals, rice, beetroot, sugar-cane, ground-nuts, tobacco, reed or other field crops and potatoes, cabbages and other vegetables. Tasks include - (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly; (b) preparing soil by hand or machine, and spreading fertilizers and manure; (c) harvesting and processing crops.	Examples of the occupations classified here: - Cereal farmer - Cotton farmer - Rice farmer - Skilled farm worker (field crops) - Sugar-cane grower Some related occupations classified elsewhere: - Agricultural production manager - 1311 - Crop farm labourer - 9211
Tree and shrub crop growers	6112	Tree and shrub crop growers plan, organize and perform farming operations to grow and harvest trees and shrubs, such as fruit and nut trees, tea and coffee bushes, grape vines, berry-bearing bushes, cocoa trees and rubber trees and to collect sap, for sale. Tasks include - (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly; (b) preparing soil by hand or machine, and spreading fertilizers and manure; (c) harvesting and processing crops.	Examples of the occupations classified here: - Rubber tapper - Fruit farmer - Rubber farmer - Tea grower - Viticulturist Some related occupations classified elsewhere: - Plantation manager - 1311 - Fruit picker - 9211

Gardeners, horticultural and nursery growers	6113	Gardeners, horticultural and nursery growers plan organize and perform operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, and to produce saplings, bulbs and seeds, or grow vegetables and flowers by Tasks include - (a) monitoring market activity and conditions determining kinds and amounts of vegetables, horticultural and nursery products to be grown and planning and coordinating production accordingly; (b) preparing land by conditioning soil, lev Examples of the occupations classified here: - Horticulturist - Landscape gardener - Market gardener - Mushroom cultivator	Some related occupations classified elsewhere: - Horticultural scientist - 2132 - Garden labourer - 9214 - Horticultural labourer - 9214
Mixed crop growers	6114	Mixed crop growers plan organize and perform farming operations to grow and harvest specific combinations of field crops, field vegetables, tree and shrub crops, and garden, horticultural and nursery products, for sale or delivery to wholesale buyers, ma Tasks include - (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly; (b) preparing soil by hand or machine, and spreading fertilizers and manure; (c) Examples of the occupations classified here: - Mixed crop farmer - Skilled farm worker (mixed crops)	Some related occupations classified elsewhere: - Agricultural production manager - 1311 - Plantation manager - 1311 - Crop farm labourer - 9211 - Fruit picker - 9211

Animal producers	612
Livestock and dairy producers	6121

Animal producers plan, organize and perform farming operations to breed and raise domesticated animals, poultry, insects and non-domesticated animals for the production of meat, dairy products, honey, skins, textiles and other products or for use as work

Task performed usually include: monitoring market activity and conditions, determining kinds and amounts of products to produce, planning and coordinating production accordingly; raising, feeding and tending animals; preparing animals or animal products

Occupations in this minor group are classified into the following unit groups:
 6121 Livestock and dairy producers
 6122 Poultry producers
 6123 Apiarists and sericulturists
 6129 Animal producers not elsewhere classified

Livestock and dairy producers plan, organize and perform farming operations to breed and raise domesticated animals (excluding poultry), such as cattle, sheep, pigs, goats, horses and camels, for the production of meat, milk and other dairy products, ski

Tasks include -
 (a) monitoring market activity and conditions, determining kinds and amounts of stock to produce, planning and coordinating production accordingly;
 (b) cultivating pastures and providing and monitoring fodder and water supplies to maint

Examples of the occupations classified here:
 - Cattle farmer
 - Dairy farmer
 - Dog breeder
 - Drover
 - Goat farmer
 - Horse breeder
 - Shearer
 - Sheep farmer
 - Shepherd
 - Stockman/woman

Some related occupations classified elsewhere:
 - Agricultural production manager - 1311
 - Ranch manager - 1311

Workers who produce a combination of domestic livestock and other animals such as poultry, insects and non-domesticated animals should be classified according to their predominant activity. Those who produce and store hay and other fodder for later consu

Poultry producers	6122	Poultry producers plan, organize and perform farming operations to breed and raise chickens, turkeys, geese, ducks and other poultry to produce meat, eggs and breeding stock for sale or delivery to wholesale buyers, marketing organizations or at markets. Tasks include - (a) monitoring market activity, planning and coordinating production accordingly, maintaining and evaluating records of farming activities; (b) growing and purchasing feed and other supplies needed to maintain appropriate nutritional levels Examples of the occupations classified here: - Poultry breeder - Poultry farmer - Poultry tender Workers who produce a combination of domestic livestock and other animals such as poultry, insects and non-domesticated animals should be classified according to their predominant activity
Apiarists and sericulturists	6123	Apiarists and sericulturists plan, organize and perform operations to breed, raise and tend insects such as honey bees, silkworms, and other species to produce honey, beeswax, silk and other products for sale or delivery to wholesale buyers, marketing or Tasks include - (a) monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of insect products to produce, planning and coordinating production accordingly; Examples of occupations classified here: - Apiarist - Sericulturist

Animal producers not elsewhere classified	6129	This unit group covers market-oriented animal producers not classified elsewhere in Minor group 612, Animal producers. For instance, the group includes those those engaged in breeding, raising and tending non-domesticated mammals, game and other birds (ex	In such cases tasks would include - (a) monitoring market activity and conditions, determining kinds and amounts of products to produce, planning and coordinating production accordingly; (b) raising, feeding and tending animals; (c) killing and skinni	Examples of the occupations classified here: - Crocodile farmer - Fur farmer (non-domesticated animals) - Game bird breeder - Ostrich farmer - Snail breeder	Some related occupations classified elsewhere: - Pet groomer - 5164 - Zoo keeper - 5164 - Game warden - 5419 - Poultry breeder - 6122
Mixed crop and animal producers	613	Mixed crop and animal producers plan, organize and perform farming operations to grow and harvest field, tree and various other crops, as well as to breed, raise and tend animals and to produce a variety of animal husbandry products, for sale or delivery	Tasks performed usually include: monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of crops to be grown and animals to be raised, and planning and coordi	Occupations in this minor group are classified into the following unit groups: 6130 Mixed crop and animal producers	
Mixed crop and animal producers	6130	Mixed crop and animal producers plan, organize and perform farming operations to grow and harvest field, tree and various other crops, as well as to breed, raise and tend animals and to produce a variety of animal husbandry products, for sale or delivery	Tasks include - (a) monitoring market activity and conditions, determining kinds and amounts of crops to be grown and animals to be raised, and planning and coordinating production accordingly; (b) purchasing seeds, fertilizer, and other supplies; (c)	Examples of the occupations classified here: - Farmer (mixed farming) - Skilled farm worker (mixed farming)	Some related occupations classified elsewhere: - Agricultural production manager – 1311 - Plantation manager - 1311 - Mixed farm labourer - 9213

Market-oriented skilled forestry, fishery and hunting workers	62	market-oriented skilled forestry, fishery and hunting workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests, breed and raise fish, harvest and catch fish and hunt and trap animals, for sale or del	Tasks performed by workers in this sub-major groups usually include: renting or investing, equipment and machinery and purchasing supplies; planning and undertaking forestry, aquaculture, fishery and hunting	Occupations in this sub-major group are classified into the following minor groups: 621 Forestry and related workers 622 Fishery workers, hunters and
Forestry and related workers	621	Forestry and related workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests.	Tasks usually include; assessing sites for reforestation, selecting seedlings and planting trees using manual planting tools and establishing and caring for forest stands; locating trees to be felled and estimating volume of timber; operating chainsaw a	Occupations in this minor group are classified into the following unit groups: 6210 Forestry and related workers
Forestry and related workers	6210	Forestry and related workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests.	Tasks include - (a) assessing sites for reforestation, selecting seedlings and planting trees using manual planting tools and establishing and caring for forest stands; (b) locating trees to be felled and estimating volume of timber; (c) operating ch	Examples of the occupations classified here: - Charcoal burner - Logger - Logging climber - Skilled forestry worker - Timber cruiser - Tree feller Some related occupations classified elsewhere: - Silviculturist - 2132 - Forestry technician - 3143 - Tree faller operator - 8341 - Forestry labourer - 9215
Fishery workers, hunters and trappers	622	Fishery workers, hunters and trappers breed and raise fish, harvest and catch fish and hunt and trap animals, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.	Tasks usually include: breeding, raising and cultivating fish, mussels, oysters and other forms of aquatic life as cash crops or for release into freshwater or saltwater; monitoring environments to ensure maintenance of optimum conditions for aquatic li	Occupations in this minor group are classified into the following unit groups: 6221 Aquaculture workers 6222 Inland and coastal waters fishery workers 6223 Deep-sea fishery workers 6224 Hunters and trappers

Aquaculture workers	6221	Aquaculture workers breed and raise fish and cultivate mussels, oysters and other forms of aquatic life, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets. Tasks include - (a) breeding, raising and cultivating fish, mussels, oysters and other forms of aquatic life as cash crops or for release into freshwater or saltwater; (b) collecting and recording growth, production, and environmental data; (c) cond	Examples of the occupations classified here: - Algae cultivator - Fish farmer - Oyster farmer - Pearl cultivator - Seafood farmer - Skilled fish farm worker - Skilled seafood farm worker	Some related occupations classified elsewhere: - Aquaculture production manager - 1312 - Aquaculture labourer - 9216
Inland and coastal waters fishery workers	6222	Inland and coastal waters fishery workers, alone or as members of fishing-vessel crews, catch fish or gather other forms of aquatic life in inland or coastal waters, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or Tasks include - (a) preparing and repairing nets and other fishing gear and equipment; (b) selecting area for fishing, plotting courses and computing navigational positions using compass, charts and other aids; (c) operating fishing vessels to, from a	Examples of the occupations classified here: - Coastal fishery skipper Examples of the occupations classified here: - Fisherman/woman (coastal waters) - Fisherwoman/man (inland waters)	Some related occupations classified elsewhere: - Fishing operations manager - 1312 - Deep sea fisherman/woman - 6223 - Fishing labourer - 9216
Deep-sea fishery workers	6223	Deep-sea fishery workers, as skippers or members of fishing vessel crews, catch deep sea fish, for sale or delivery to wholesale buyers, marketing organizations or at markets. Tasks include - (a) preparing and repairing nets and other fishing gear and equipment; (b) commanding and operating fishing vessels to from and at deep-sea fishing grounds; (c) determining areas for fishing, plotting courses and computing navigational	Examples of the occupations classified here: - Deep sea fisherman/woman - Trawler skipper	Some related occupations classified elsewhere: - Fishing operations manager - 1312 - Fisherman/woman (coastal waters) - 6222 - Fisherman/woman (inland waters) - 6222 - Coastal fishery skipper - 6222 - Fishing labourer - 9216

Hunters and trappers	6224	Hunters and trappers catch and kill mammals, birds or reptiles mainly for meat, skin, feathers and other products, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets	Tasks include - (a) setting traps to catch mammals, birds or reptiles; (b) killing trapped or free mammals, birds or reptiles with firearms or other weapons; (c) skinning and otherwise treating killed mammals, birds or reptiles to obtain desired product	Examples of the occupations classified here: - Fur trapper - Seal hunter - Whale hunter Occupations in this sub-major group are classified into the following minor groups:	
Subsistence farmers, fishers, hunters and gatherers	63	Subsistence farmers, fishers, hunters and gatherers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, catch fish and gather various forms of aquatic life in order to	Tasks performed by workers in this sub-major group usually include - preparing the soil; sowing, planting, tending and harvesting field crops; growing vegetables, fruit and other tree and shrub crops; gathering wild fruits, medicinal and other plants; br Tasks usually include; preparing the soil, sowing, planting, tending and harvesting field crops; growing vegetables, fruit and other tree and shrub crops; fetching water and gathering firewood; storing for later	631 Subsistence crop farmers 632 Subsistence livestock farmers 633 Subsistence mixed crop and livestock farmers 634 Subsistence fishers, hunters, trappers and gatherers	
Subsistence crop farmers	631	Subsistence crop farmers grow and harvest field or tree and shrub crops, vegetables and fruit, in order to provide food, shelter and a minimum of cash income for themselves and their households.		Occupations in this minor group are classified into the following unit groups: 6310 Subsistence crop farmers	
Subsistence crop farmers	6310	Subsistence crop farmers grow and harvest field or tree and shrub crops, vegetables and fruit, in order to provide food, shelter and a minimum of cash income for themselves and their households.	Tasks include - (a) preparing the soil, sowing, planting, tending and harvesting field crops; (b) growing vegetables, fruit and other tree and shrub crops; (c) fetching water and gathering firewood; (c) storing for later use and carrying out some pro	Some related occupations classified elsewhere: - Farm labourer - 9211 - Firewood collector- 9624 - Water collector- 9624 Examples of the occupations classified here: - Subsistence crop farmer	Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usual
Subsistence livestock farmers	632	Subsistence livestock farmers breed, raise and tend livestock in order to provide food, shelter and a minimum of cash income for themselves and their households.	Tasks performed usually include cultivating pastures, or managing grazing lands, and monitoring feed and water supplies needed to maintain condition of livestock; monitoring and examining animals to detect illness, injury, or disease, and to check physic	Occupations in this minor group are classified into the following unit groups: 6320 Subsistence livestock farmers	

Subsistence livestock farmers	6320	Subsistence livestock farmers breed, raise and tend livestock in order to provide food, shelter and a minimum of cash income for themselves and their households. Tasks include - (a) cultivating pastures, or managing grazing lands, and monitoring feed and water supplies needed to maintain condition of livestock; (b) monitoring and examining animals to detect illness, injury, or disease, and here: to check physical condition Examples of the occupations classified - Subsistence cattle farmer	Some related occupations classified elsewhere: - Livestock farm labourer - 9212 - Mixed crop and livestock farm labourers - 9213 - Water and firewood collector – 9624	Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usual
Subsistence mixed crop and livestock farmers	633	Subsistence mixed crop and livestock farmers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, and/or catch fish and gather various forms of aquatic life in order to Tasks include - (a) preparing the soil, sowing, planting, tending and harvesting field crops; (b) growing vegetables, fruit and other tree and shrub crops; (c) gathering wild fruits, medicinal and other plants; (d) breeding, tending and feeding animals Occupations in this minor group are classified into the following unit groups:	6330 Subsistence mixed crop and livestock farmers	Skilled agricultural, forestry and fishery workers
Subsistence mixed crop and livestock farmers	6330	Subsistence mixed crop and livestock farmers grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, and/or catch fish and gather various forms of aquatic life in order to Tasks include - (a) preparing the soil, sowing, planting, tending and harvesting field crops; (b) growing vegetables, fruit and other tree and shrub crops; (c) gathering wild fruits, medicinal and other plants; (d) breeding, tending and feeding animals Occupations in this minor group are classified into the following unit groups:		Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usual
Subsistence fishers, hunters, trappers and gatherers	634	Subsistence fishers, hunters, trappers and gatherers gather wild fruits, medicinal and other plants, hunt and trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves Tasks performed usually include gathering wild fruits, roots, medicinal and other plants; hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products; fetching water and gathering firewood; catching trappers and gatherers Occupations in this minor group are classified into the following unit groups:	6340 Subsistence fishers, hunters, trappers and gatherers	

		Task include - (a) gathering wild fruits, roots, medicinal and other plants; (b) hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products; (c) fetching water and gathering firewood; (d) catching fish and gathering other f	Some related occupations classified elsewhere: - Subsistence crop farmer – 6310 - Subsistence livestock farmer – 6320 - Livestock farm labourer – 9212 - Water and firewood collector – 9624
Subsistence fishers, hunters, trappers and gatherers	6340	Subsistence fishers, hunters, trappers and gatherers gather wild fruits, medicinal and other plants, hunt and trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves	- Hunter-gatherer - Subsistence collector
			Occupations in this major group are classified into the following sub-major groups:
Craft and related trades workers	7	Craft and related trades workers apply specific knowledge and skills in the fields to construct and maintain buildings, form metal, erect metal structures, set machine tools, or make, fit, maintain and repair machinery, equipment or tools, carry out print	Tasks performed by craft and related trades workers usually include: constructing, maintaining and repairing buildings and other structures; casting, welding and shaping metal; installing and erecting heavy metal structures, tackle and related equipment;
			71 Building and related trades workers, excluding electricians 72 Metal, machinery and related trades workers 73 Handicraft and printing workers 74 Electrical and electro
			Occupations in this sub-major group are classified into the following minor groups:
Building and related trades workers, excluding electricians	71	Building and related trades workers construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes, and extract and work solid mine	Tasks performed by workers in this sub-major group include: constructing, maintaining and repairing buildings and other structures using traditional and/or modern building techniques; constructing and repairing foundations, walls and structures of brick,
			711 Building frame and related trades workers 712 Building finishers and related trades workers 713 Painters, building structure cleaners and related trades workers
			Occupations in this minor group are classified into the following unit groups:
Building frame and related trades workers	711	Building frame and related trades workers construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes, and perform miscellaneous	Tasks performed by workers in this minor group include: constructing, maintaining and repairing buildings and other structures by using traditional and/or modern building techniques; constructing and repairing foundations, walls and structures of brick, s
			7111 House builders 7112 Bricklayers and related workers 7113 Stonemasons, stone cutters, splitters and carvers 7114 Concrete placers, concrete finishers and related worke

House builders	7111	House builders erect, maintain and repair houses and similar small buildings using either traditional or modern techniques and materials.	Tasks include - (a) preparing ground for erecting building or other structures; (b) erecting structures to support roof, and building and covering walls with appropriate materials; (c) fixing rafters to roof and covering with roofing material; (d) levelling (a) laying stone, brick and similar building blocks to construct or repair walls, partitions, fireplaces and other structures such as smokestacks, furnaces, converters, kilns and ovens, piers and abutments; (b) laying footpaths, kerbs and	Examples of the occupations classified here: - House Builder	Some related occupations classified elsewhere: Construction project manager - 1323 Project builder - 1323 Construction supervisor - 3123
Bricklayers and related workers	7112	Bricklayers and related workers lay bricks, pre-cut stones and other types of building blocks in mortar to construct and repair walls, partitions, arches and other structures.	(b) laying footpaths, kerbs and	Examples of the occupations classified here: - Bricklayer - Blocklayer - Refractory bricklayer - Chimney builder	Some related occupations classified elsewhere: - Stonemason - 7113
Stonemasons, stone cutters, splitters and carvers	7113	Stonemasons, stone cutters, splitters and carvers cut and shape hard and soft stone blocks and slabs for the construction and maintenance of stone structures and monumental masonry, and carve designs and figures in stone.	Tasks include - (a) driving wedges into quarried stone to break it into slabs or blocks; (b) selecting and grading slabs and blocks of granite, marble, and other stone; (c) cutting, shaping and finishing building and monumental stone such as granite or	Examples of the occupations classified here: - Stone Carver - Stone Cutter - Granite Cutter	Some related occupations classified elsewhere: - Wall and floor tiler - 7122 - Machine operator (stone cutting or processing) - 8112
Concrete placers, concrete finishers and related workers	7114	Concrete placers, concrete finishers and related workers erect reinforced concrete frameworks and structures, make forms for moulding concrete, reinforce concrete surfaces, cement openings in walls or casings for wells, finish and repair cement surfaces	Tasks include - (a) constructing and repairing reinforced concrete floors, walls, tanks, silos and other concrete structures; (b) making shuttering or assembling prefabricated forms for moulding concrete; (c) cementing openings in walls or casings for	Examples of the occupations classified here: - Cement finisher - Concrete placer - Terrazzo worker	Some related occupations classified elsewhere: - Concrete finishing machine operator - 8114 - Road surface laying machinery operator - 8342
Carpenters and joiners	7115	Carpenters and joiners cut, shape, assemble, erect, maintain and repair various types of structures and fittings made from wood and other materials.	Tasks include - (a) making, altering and repairing structural and other woodwork at a work-bench and on a construction site; (b) constructing, erecting and installing heavy-framed wooden structures on building sites; (c) fitting, assembling and altering	Examples of the occupations classified here: - Carpenter - Finish Carpenter - Framer - Joiner - Shipwright (wood)	Some related occupations classified elsewhere: - Cabinet maker - 7522 - Wheelwright - 7522

Building frame and related trades workers not elsewhere classified	7119	This unit group covers building frame and related trades workers not classified elsewhere in Minor group 711, Building frame and related trades workers. For instance the group includes steeplejacks, scaffolders and demolition workers. (a) climbing and performing miscellaneous construction and building maintenance work on tall structures such as towers, chimneys and spires; (b) erecting temporary metal or wooden scaffolding on building sites; Examples of the occupations classified here: - Skilled demolition worker - Scaffolder - Steeplejack Some related occupations classified elsewhere: - Construction labourer - 9313 - Demolition labourer- 9313
Building finishers and related trades workers	712	Building finishers and related trades workers cover, apply or install, maintain and repair roofs, floors, walls, insulation systems, glass in windows or other frames, as well as plumbing, piping and electrical systems in buildings and other structures. Tasks performed usually include: 7121 Roofers 7122 Floor layers and tile setters 7123 Plasterers 7124 Insulation workers 7125 Glaziers 7126 Plumbers and pipe fitters 7127 Air conditioning and refrigeration Occupations in this minor group are classified into the following unit groups:
Roofers	7121	Roofers build and repair roofs on all types of buildings using one or more kinds of materials. Tasks include - (a) studying drawings, specifications and construction sites to determine materials required; (b) covering roof frameworks with slate and pre-fabricated tiles to cover pitched roofs; (c) laying a waterproof shield and fixing metallic or Examples of the occupations classified here: - Asphalt Roofer - Metal Roofer - Slate Roofer - Tile Roofer - Roof fixer - Thatcher
Floor layers and tile setters	7122	Floor layers and tile setters install, maintain and repair flooring, and cover floors, walls and other surfaces with tiles or mosaic panels for decorative or other purposes. Tasks include - (a) preparing floor areas for covering with a variety of materials; (b) assembling carpet, tiles or other materials and laying them on floors according to design and other specifications; (c) preparing wall areas for covering with tiles Examples of the occupations classified here: - Parquetry worker - Marble setter - Tile setter - Carpet layer
Plasterers	7123	Plasterers install, maintain and repair plasterboard in buildings, and apply decorative and protective coverings of plaster, cement and similar material to the interiors and exteriors of structures. Tasks include - (a) applying one or more coats of plaster to interior walls and ceilings of buildings to produce finished surface; (b) measuring, marking and installing ornamental plaster panels, and casting and trimming ornamental plaster cornices; (c) Examples of the occupations classified here: - Plasterer - Ornamental Plasterer - Stucco Plasterer - Fibrous Plasterer - Solid Plasterer

Insulation workers	7124	Insulation workers apply and repair insulating materials to buildings, boilers, pipes or refrigeration and air-conditioning equipment. Tasks include - (a) cutting insulation material by size and shape; (b) applying slabs and sheets of insulating or sound-absorbing materials to walls, floors and ceilings of buildings; (c) blow and pack insulating or sound-absorbing materials into cavities.	Examples of the occupations classified here: - Insulation worker - Acoustic insulation worker - Boiler and pipe Insulation worker - Refrigeration and air-conditioning equipment Insulation worker - Insulation Installer
Glaziers	7125	Glaziers measure, cut, finish, fit and install flat glass and mirrors. Tasks include - (a) selecting the type of glass to be used, cutting to right size and shape and installing in windows, doors, showers and partitions of buildings; (b) installing glass and mirrors in skylights, display cases, interior walls and ceilings;	Examples of the occupations classified here: - Autoglazier - Glazier - Roofing glazier - Vehicle glazier Some related occupations classified elsewhere: - Glass cutter -7315 - Glass finisher -7315
Plumbers and pipe fitters	7126	Plumbers and pipe fitters assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment. Tasks include - (a) measuring, cutting, threading, bending, jointing, assembling, installing and maintaining and repairing pipes, fittings and fixtures of drainage, heating, water supply and sewerage systems; (b) installing gas appliances, dishwashers and (a) interpreting blueprints, drawings or other specifications; (b) assembling, installing and repairing components for air conditioning and refrigeration systems; (c) connecting piping and equipment by bolting, riveting, welding or brazing.	Examples of the occupations classified here: - Pipe fitter - Pipe layer - Plumber - Drain technician Some related occupations classified elsewhere: - Air conditioning and refrigeration mechanics - 7126
Air conditioning and refrigeration mechanics	7127	Air conditioning and refrigeration mechanics assemble, install, maintain and repair air conditioning and refrigeration systems and equipment. Tasks performed usually include: preparing surfaces and applying paint and similar materials to buildings and other structures; applying paint or varnish to vehicles or various manufactured articles, usually with a hand-spraying device; covering interior walls and ceilings with wallpaper, etc.	Examples of the occupations classified here: - Air conditioning equipment mechanic - Refrigeration mechanic Some related occupations classified elsewhere: - Ventilation pipe fitter - 7126 - Plumbers and pipe fitters - 7126
Painters, building structure cleaners and related trades workers	713	Painters, building structure cleaners and related trades workers prepare surfaces and apply paint and similar materials to buildings and other structures, vehicles or various manufactured articles. They cover interior walls and ceilings with wallpaper, etc.	Occupations in this minor group are classified into the following unit groups: 7131 Painters and related workers 7132 Spray painters and varnishers 7133 Building structure cleaners
Painters and related workers	7131	Painters and related workers prepare surfaces of buildings and other structures for painting, apply protective and decorative coats of paint or similar materials, or cover interior walls and ceilings of buildings with wallpaper or other finishes. Tasks include: (a) cleaning and preparing walls and other surfaces of buildings for painting or wallpapering; (b) selecting and preparing paints to required colours by mixing pigments and additives; (c) applying or spraying paint, varnish, and similar	Examples of the occupations classified here: - Building painter - Paperhanger

Spray painters and varnishers	7132	Spray painters and varnishers operate spray painting and varnishing equipment to apply protective coatings to manufactured items or structures.	Tasks include - (a) preparing surfaces to be coated using a variety of methods to remove grease, dirt and rust; (b) painting cars, buses, trucks and other vehicles, and applying varnish and other protective coatings; (c) applying paint as well as prote	Examples of the occupations classified here: - Manufactured articles painter - Vehicle painter - Varnisher	Some related occupations classified elsewhere: - Metal painting machine operator -8122 - Wood painting machine operator -7521 - Building painter - 7131 - Decorative painter- 7131 - Signwriter- 7316
Building structure cleaners	7133	Building structure cleaners clean exterior surfaces of buildings and other structures, and remove soot from chimneys.	(a) cleaning exterior surfaces of stone, brick, metal or similar materials by means of chemicals, or a jet of steam or sand applied under high pressure; (b) removing soot from flues, chimneys and connecting pipes;	Examples of the occupations classified here: - Chimney sweep - Building exteriors cleaner - Sandblaster (building exteriors)	Some related occupations classified elsewhere: - Graffiti cleaner - 9129 - Water blater - 9129
Metal, machinery and related trades workers	72	Metal, machinery and related trades workers cast, weld, forge and, by other methods, form metal, erect, maintain and repair heavy metal structures, engage in machine-tool setting as well as in fitting, maintaining and repairing machinery, including eng	Tasks performed by workers in this sub-major group usually include: making moulds and cores for casting metal; casting, welding and shaping metal; installing, erecting, maintaining and repairing heavy metal structures, tackle and related equipment; for	Occupations in this sub-major group are classified into the following minor groups: 721 Sheet and structural metal workers, moulders and welders, and related workers 722 Blacksmiths, toolmakers and related trades workers 723 Machinery mechanics and repai	
Sheet and structural metal workers, moulders and welders, and related workers	721	Sheet and structural metal workers, moulders and welders, and related workers, make moulds and cores for casting metal, weld and cut metal parts, make and repair articles of sheet metal, and install, erect, maintain and repair heavy metal structures, tac	Tasks performed usually include: making moulds and cores for casting metal; casting, welding and shaping metal parts; making and repairing articles of sheet metal such as sheet steel, copper, tin, or brass; installing, erecting, maintaining and repairing	Occupations in this minor group are classified into the following unit groups: 7211 Metal moulders and coremakers 7212 Welders and flamecutters 7213 Sheet-metal workers 7214 Structural-metal preparers and erectors 7215 Riggers and cable splicers	
Metal moulders and coremakers	7211	Metal moulders and coremakers make moulds and cores for casting metal.	Tasks include - (a) making moulds by hand or using auxiliary machines on a bench for small metal castings, on the foundry floor, or in a pit for large castings; (b) making cores for use in metal moulds; (c) cleaning and smoothing moulds, core boxes, a	Examples of the occupations classified here: - Coremaker - Metal casting moulder	

Welders and flame cutters	7212	Tasks include - (a) welding metal parts using gas flame, or an electric arc, thermite compound or other methods; (b) operating resistance-welding machines; (c) using blowtorch to make and repair lead linings, pipes, floors and other lead fixtures; (d) Welders and flame cutters weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.	Examples of the occupations classified here: - Brazier - Flame cutter - Welder
Sheet metal workers	7213	Tasks include - (a) marking sheet metal for cutting and shaping; (b) making and repairing household utensils and other articles in tin, copper and light alloys, or ornamental articles and fittings; (c) making and repairing boilers, tanks, vats and sim Sheet metal workers make, install and repair articles and parts of articles made out of sheet metal such as sheet steel, copper, tin, brass, aluminium, zinc or galvanised iron.	Examples of the occupations classified here: - Boilersmith - Coppersmith - Sheet-metal worker - Tinsmith
Structural metal preparers and erectors	7214	Tasks include - (a) marking metal framework as a guide when drilling, cutting, and shaping them for use in buildings, ships and other structures; (b) drilling, cutting and shaping structural steel in a workshop; (c) erecting steel framework for buildings Structural metal preparers and erectors assemble, erect and dismantle structural metal frames of buildings and other structures.	Examples of the occupations classified here: - Erector, structural metal - Preparer, structural metal - Riveter Some related occupations classified elsewhere: - Rivet production machine operator-7223
Riggers and cable splicers	7215	Tasks include - (a) estimating the size, shape and weight of objects to be moved and deciding on the type of equipment to move them; (b) installing and repairing cables, ropes, wires, pulleys and other tackle; (c) joining, repairing and fitting attachm Riggers and cable splicers assemble rigging gear to move and position equipment and structural components, or install and maintain cables, ropes and wires on construction sites, buildings or other structures	Examples of the occupations classified here: - Rigger - Ship rigger - Cable and rope splicer - Tower rigger - Theatrical rigger Some related occupations classified elsewhere: - Splicing/cable and rope machine operator – 8189 - Crane, hoist and related plant operators - 8343

			Occupations in this minor group are classified into the following unit groups:	
		Tasks performed usually include:		
Blacksmiths, toolmakers and related trades workers	722	Blacksmiths, toolmakers and related trades workers, hammer and forge bars, rods or ingots of iron, steel and other metals to make various kinds of tools, equipment and repair various kinds of tools, equipment and other articles, set machine tools for operators or set and operate various	7221 Blacksmiths, hammersmiths and forging press workers 7222 Toolmakers and related workers 7223 Metal working machine tool setters and operators 7224 Metal polishers, w	
		Tasks include - (a) heating metal in forge furnace and manufacturing and repairing articles by drawing, bending, (b) cutting, hammering metal on an anvil, punching, shearing, joining and hardening or tempering; (c) shaping heated metal into forgings	Examples of the occupations classified here: - Blacksmith - Drop-hammer worker - Forging press worker - Hammersmith	Some related occupations classified elsewhere: - Casting machine operator- 7223 - Machine-tool machine operator- 7223
Blacksmiths, hammersmiths and forging press workers	7221	Blacksmiths, hammersmiths and forging press workers hammer and forge bars, rods, ingots and plates of iron, steel or other metals, and draw wire to make and repair various kinds of tools, metal articles, pieces of equipment, and agricultural and related		
		Tasks include - (a) reading and interpreting engineering drawings and specifications of tools, dies, prototypes or models; (b) preparing templates and sketches, and determining work processes; (c) visualizing and computing dimensions, sizes, shapes,	Examples of the occupations classified here: - Die maker - Gunsmith - Jig maker - Locksmith - Patternmaker - Toolmaker	Some related occupations classified elsewhere: - Tool production machine operator - 7223
Toolmakers and related workers	7222	Toolmakers and related workers make and repair custom made and specialised tools, sports guns, locks, dies, patterns machinery components and other metal articles using hand and machine tools to work metal to fine tolerances.		
		Tasks include - (a) setting one or more types of machine tool for production of metal articles in standardised series; (b) operating and monitoring metalworking machines, such as lathes, milling, planing, boring, drilling, grinding or honing machines,	Examples of the occupations classified here: - Boring machine operator - Machine tool setter - Machine tool operator - Machine tool setter-operator - Metal turner	
Metal working machine tool setters and operators	7223	Metal working machine tool setters and operators set and/or operate, various machine tools working to fine tolerances.		

Metal polishers, wheel grinders and tool sharpeners	7224	Metal polishers, wheel grinders and tool sharpeners polish and grind metal surfaces and sharpen tools.	Tasks include - (a) operating fixed or portable buffing and polishing machines; (b) sharpening cutting tools and instruments using grinding wheels or mechanically operated grinding machines; (c) repairing, adjusting and sharpening saw blades and metal	Examples of the occupations classified here: - Metal finisher - Tool grinder - Metal polisher - Knife sharpener Occupations in this minor group are classified into the following unit groups:	Some related occupations classified elsewhere: - Metal finishing machine operator - 8122 - Metal polishing machine operator - 8122
Machinery mechanics and repairers	723	Machinery mechanics and repairers fit, install, maintain and repair engines, vehicles, agricultural or industrial machinery and similar mechanical equipment.	Tasks performed usually include: fitting, installing, maintaining and repairing engines, vehicles, agricultural or industrial machinery and similar mechanical equipment.	7231 Motor vehicle mechanics and repairers 7232 Aircraft engine mechanics and repairers 7233 Agricultural and industrial machinery mechanics and repairers 7234 Bicycle a	Occupations are classified in Major group 8, Plant and machine operators and assemblers, if the tasks call mainly for experience with and an understanding of the machinery operated and monitored. Occupations are classified in Major group 9, Elementary
Motor vehicle mechanics and repairers	7231	Motor vehicle mechanics and repairers fit, install, maintain, service and repair engines and the mechanical and related equipment of complete engines; passenger cars, delivery trucks, motorcycles and other motor vehicles.	(a) detecting and diagnosing faults in engines and parts; (b) fitting, examining, testing and servicing motor vehicle and motorcycle engines; (c) replacing engine components or complete engines; (d) fitting, examining, adjusting, dismantling, rebuild	Examples of the occupations classified here: - Automotive brakes systems service technician - Diesel fitter (road transport) - Engine fitter (motor vehicle) - Garage mechanic - Motorcycle mechanic - Motor vehicle engine and fuel systems service tech	Some related occupations classified elsewhere: - Bicycle repairer - 7234 - Motor vehicle engine assembler - 8211

Aircraft engine mechanics and repairers	7232	Aircraft engine repairers and mechanics fit, service, repair and overhaul aircraft engines and assemblies, such as airframes, hydraulic, and pneumatic systems.	Tasks include - (a) fitting, examining, testing and servicing aircraft engines; (b) replacing engine components or complete engines; (c) examining and inspecting airframes and aircraft components, including landing gear, hydraulic systems, and deice	Examples of the occupations classified here: - Aircraft engine fitter - Aircraft maintenance engineer (airframes) - Aircraft maintenance engineer (engines) - Aircraft maintenance supervisor - Aircraft mechanic - Aircraft restorer - Aircraft service	Some related occupations classified elsewhere: - Aircraft maintenance engineer (avionics) - 7421 - Avionics technician - 7421 - Aircraft engine assembler- 8211
Agricultural and industrial machinery mechanics and repairers	7233	Agricultural and industrial machinery mechanics and repairers fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.	Tasks include - (a) fitting, installing, examining, servicing and repairing engines, machinery and mechanical equipment; (b) oiling and greasing stationary engines and machinery; (c) inspecting and testing new machinery and mechanical equipment for con	Examples of the occupations classified here: - Air-conditioning equipment mechanic - Construction machinery mechanic - Construction machinery repairer - Farm machinery repairer - Mining machinery fitter - Mining machinery repairer - Stationary eng	Some related occupations classified elsewhere: - Electrical mechanic - 7412 - Mechanical machinery assembler- 8211
Bicycle and related repairers	7234	Bicycle and related repairers fit, maintain, service and repair the mechanical and related equipment of bicycles, rickshaws, baby carriages, wheelchairs and similar non-motorized transport equipment.	Tasks include - (a) examining, servicing and repairing bicycles and other non-motorized transport equipment; (b) cleaning and lubricating bearings and other moving parts; (c) replacing and repairing components and accessories, such as brakes, driving	Examples of the occupations classified here: - Bicycle mechanic - Bicycle repairer - Perambulator repairer - Wheelchair repairer	Some related occupations classified elsewhere: - Moped repairer - 7231 - Motorized rickshaw mechanic - 7231

Handicraft and printing workers	73	Handicraft and printing workers make and repair precision instruments, musical instruments, various articles such as jewellery, precious metalware, ceramics, porcelain ware and glassware, as well as handicrafts made of wood or textile, leather Tasks performed by workers in this sub-major group usually include: making and repairing nautical, meteorological, optical and other precision instruments and equipment; making and repairing musical instruments; making jewellery and precious metalware; Occupations in this sub-major group are classified into the following minor groups: 731 Handicraft workers 732 Printing trades workers
Handicraft workers	731	Handicraft workers combine artistic and manual skills to design, make, repair, adjust, maintain and decorate precision instruments, musical instruments, jewellery and other precious-metals, pottery and porcelain ware. They apply traditional and/or recent Tasks performed usually include: making, calibrating, repairing, maintaining and installing musical and precision instruments; fabricating, adjusting, repairing, or appraising jewellery, ceremonial or religious items, gold, silver, other precious metals, Occupations in this minor group are classified into the following unit groups: 7311 Precision-instrument makers and repairers 7312 Musical instrument makers and tuners 7313 Jewellery and precious-metal workers 7314 Potters and related workers 7315
Precision-instrument makers and repairers	7311	Precision-instrument makers and repairers make, calibrate, repair, maintain, adjust and install mechanical watches, clocks, nautical, meteorological, optical, orthopaedic and other precision instruments and equipment and set them for correct performance. Tasks include - (a) repairing, cleaning, and adjusting mechanisms of timing instruments, such as watches and clocks; (b) adjusting timing regulators, using calipers, watch-rate recorders, and tweezers. (c) cleaning, rinsing, and drying timepiece part Examples of the occupations classified here: - Instrument/meteorological maker - Orthopaedic appliance maker - Watch maker Some related occupations classified elsewhere: - Surgical instrument maker - 3214 - Locksmith - 7222 - Machine-tool machine operator - 7223 - Watch assembler- 8212

Musical instrument makers and tuners

7312

Tasks include -
(a) fabricating and assembling musical instruments and instrument parts of wood, ebonite, metal, leather and other materials;
(b) repairing or replacing musical instrument parts and components, such as strings, bridges, felts, and keys,
Musical-instrument makers and tuners make, assemble, repair, adjust, restore musical instruments and tune them to the required pitch with hand or power tools. They usually specialize in one type of instrument, such as string instruments, brass instruments
Examples of the occupations classified here:
- Brass instrument repairer
- Piano tuner
- Stringed instrument maker
- Woodwind instrument maker

Jewellery and precious metal workers

7313

Tasks include -
(a) casting jewellery and other non-ferrous metal articles by hand;
(b) creating new jewellery designs and modifying existing designs, using computers as necessary;
(c) cutting designs in moulds or other materials to be used as models i
Jewellery and precious metal workers design, fabricate, adjust, repair, or appraise jewellery, ceremonial or religious items, gold, silver, other precious metals, or gems. They cut, file, polish and set precious and semi-precious stones including gems an
Examples of the occupations classified here:
- Enameller, jewellery
- Goldsmith
- Jeweller
- Gem setter
- Silversmith

Potters and related workers

7314

- Tasks include -

 - (a) making articles of pottery and porcelain;
 - (b) making clay or plaster of Paris moulds;
 - (c) reading technical drawings to know customer's requirements;
 - (d) forming articles on potter's wheel by pressing thumbs into centres of and abrasive wheels by hand or by machine. revolve
- Examples of the occupations classified here:

 - Pottery and porcelain caster
 - Pottery and porcelain modeller
 - Potter
 - Abrasive Wheel Moulder
- Some related occupations classified elsewhere:

 - Kiln operator, brick and tile - 8181
 - Kiln operator, pottery and porcelain – 8181

Glass makers, cutters, grinders and finishers

7315

- Tasks include -

 - (a) heating glass to pliable stage, using gas flames or ovens, and rotating glass to heat it uniformly.
 - (b) blowing and bending glass tubing into specified shapes to form scientific apparatus like flasks, retorts, pipettes
 - (c) grinding
- Examples of the occupations classified here:

 - Glass blower
 - Glass cutter
 - Glass finisher
 - Glass grinder
- Some related occupations classified elsewhere:

 - Glass production furnace operator- 8181

Sign writers, decorative painters, engravers and etchers	7316	Sign writers, decorative painters, engravers and etchers decorate articles made of wood, metal, textiles, glass, ceramics and other materials. They plan, lay out and paint letters, figures, monograms and designs to make signs and engrave and etch ornament	Tasks include - (a) painting decorative free-hand designs on objects, such as pottery, glass, cigarette cases, lampshades; (b) transferring from paper transfers decorative or ornamental designs on articles; (c) integrating and developing visual element	Examples of the occupations classified here: - Glass engraver - Glass etcher - Glass enameller - Decorative painter - Sign-writer	Some related occupations classified elsewhere: - Ceramics painting machine operator- 8181 - Glass painting machine operator - 8181 - Building painter -7 131 - Manufactured articles painter - 7132 - Vehicle painter - 7132
Handicraft workers in wood, basketry and related materials	7317	Handicraft workers in wood and related materials apply traditional techniques like seasoning, impregnation to prepare wood, straw, rattan, reeds, stone, clay, shells, and other materials, and carve, mould, assemble, weave, or paint and decorate various ar	Tasks include - (a) preparing wood, straw, rattan, reeds, stone, shells, or similar materials; (b) carving floral and artistic designs on wooden surfaces for decorative purposes; (c) painting free hand decorative designs on glass and pottery or porcela	Examples of the occupations classified here: - Reed weaving handicraft worker - Stone articles handicraft worker - Wooden articles handicraft worker - Basket maker - Brush maker - Wicker furniture maker	Some related occupations classified elsewhere: - Machine operator (stone products) - 8114 - Machine operator (wood products) - 7523

			Examples of the occupations classified here: - Carpets handicraft worker - Leather Handicraft worker - Textiles handicraft worker - Textile fibre comber - Textile fibre drawer - Textile fibre rover - Knitter - Thread and yarn spinner - Loom threader - C	Some related occupations classified elsewhere: - Textile fibre combing machine operator - 8151 - Knitting machine operator – 8152 - Weaving machine operator - 8152
Handicraft workers in textile, leather and related materials	7318	Handicraft workers in textile, leather and related materials apply traditional techniques and patterns to produce woven fabrics, knitted, embroidered, woven and other garments and articles for household use, as well as traditional footwear, handbags, etc. This unit group covers handicraft workers who perform traditional handicrafts not classified elsewhere. For instance, the group	Tasks include - (a) spinning and dyeing with natural dyestuffs, wool, cotton and other fibres; (b) lace-making and weaving, knitting, or embroidering various garments and articles for household use; (c) preparing and dyeing hides with natural dyestuffs	
Handicraft workers not elsewhere classified	7319			Examples of the occupations classified here: Metal toymaker
Printing trades workers	732	Printing trades' workers compose and set type prior to printing, set up and operate printing presses, bind and finish printed products, and prepare stencils and operate screen printing equipment	Tasks performed usually include: operating graphic cameras and other photographic equipment to reproduce camera-ready copy onto films, plates and digital output devices; operating computer screen-based equipment for scanning, colour separation and correct	Occupations in this minor group are classified into the following unit groups: 7321 Pre-press technicians 7322 Printers 7323 Print finishing and binding workers
Pre-press technicians	7321	Pre-press technicians proof, format, set and compose text and graphics into a form suitable for use in various printing processes and representation in other visual media.	Tasks include - (a) operating graphic cameras and other photographic equipment to reproduce camera-ready copy onto films, plates and digital output devices; (b) using computer applications to generate images, text, layouts and impositions for print and	Examples of the occupations classified here: - Compositor - Desktop publishing operator - Electronic pre-press technician, - Plate moulder (screen printing) - Plate maker (printing) - Screen maker - Typesetter

Printers	7322	Printers set up and operate digital, letterpress, lithographic, flexographic, gravure, newspaper and other printing presses.	Tasks include - (a) setting, adjusting and monitoring substrate-feed mechanisms, delivery mechanisms, inking systems and other printing machine functions; (b) mixing ink and solvents to standard, and regulating paper and ink supply during print runs;	Examples of the occupations classified here: Block printer Digital press operator Feeder operator (printing) Flexographic press operator Gravure press operator Large sheet-fed press operator Screen printer Screen printing press operator Small press oper
Print finishing and binding workers	7323	Print finishing and binding workers bind books and other publications, and finish printed products by hand or machine.	Tasks include - (a) setting up and supervising the operation of automatic binding and finishing equipment; (b) binding full, half and limp-bound books, and repairing bindings; (c) folding, collating and sewing signatures by machine and hand; (d) ope	Examples of the occupations classified here: Book binder Collator operator Cutter operator Foil Stamp operator Folder operator Gatherer operator Multibinder operator Perfect binder operator Saddle stitch operator Small machine bindery worker
Electrical and electronics trades workers	74	Electrical and electronics trades workers install, fit and maintain electrical wiring systems and machinery and other electrical apparatus, electrical transmission and supply lines and cables, and electronic and telecommunications equipment and systems.	Tasks performed usually include: installing, maintaining, fitting and adjusting electrical and electronic wiring systems, machinery and equipment; examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation; in	Occupations in this sub-major group are classified into the following minor groups: 741 Electrical equipment installers and repairers 742 Electronics and telecommunications installers and repairers
Electrical equipment installers and repairers	741	Electrical equipment installers and repairers install, fit and maintain electrical wiring systems and related equipment, electrical machinery and other electrical apparatus and electrical transmission and supply lines and cables.	installing, maintaining, fitting and adjusting electrical wiring systems, machinery and equipment; examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation; inspecting and t	Occupations in this minor group are classified into the following unit groups: 7411 Building and related electricians 7412 Electrical mechanics and fitters 7413 Electrical line installers and repairers

Building and related electricians	7411	Building and related electricians install, maintain and repair electrical wiring systems and related equipment and fixtures.	Tasks include - (a) installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings and other structures; (b) examining blueprints,	Examples of the occupations classified here: - Electrician - Building repairs electrician	Some related occupations classified elsewhere: - Electrical fitter - 7412 - Electrical mechanic - 7412 - Electrical line installer - 7413
Electrical mechanics and fitters	7412	Electrical mechanics and fitters fit, adjust, install and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops, or other places.	Tasks include - (a) fitting, adjusting and repairing various kinds of electrical machinery and motors, generators, switchgear and control apparatus, instruments, or electrical parts of elevators and related equipment; (b) fitting, adjusting and repairi	Examples of the occupations classified here: - Armature builder - Electrical generator fitter - Electrical mechanic - Lift mechanic	Some related occupations classified elsewhere: - Electronics mechanic – 7421 - Electrical equipment assembler – 8212
Electrical line installers and repairers	7413	Electrical line installers and repairers install, repair and join electrical transmission and supply cables and related equipment.	Tasks include - (a) installing and repairing overhead and underground electrical power and electrical traction lines; (b) making joints in overhead and underground cables; (c) adhering to safety practices and procedures, such as checking equipment reg	Examples of the occupations classified here: - Electric cable joiner - Electric power line worker	Some related occupations classified elsewhere: - Data and telecommunications cabler - 7422 - Telecommunications line worker - 7422

Electronics and telecommunications installers and repairers	742	Electronics and telecommunications installers and repairers fit, maintain, adjust and repair electronic equipment such as commercial and office machines and electronic instruments and control systems and install, repair and maintain telecommunications equ	Tasks performed usually include: examining and testing machines, equipment, instruments and control systems to diagnose faults; adjusting, repairing, and replacing worn and defective parts and wiring, and maintaining machines, equipment and instruments;	Occupations in this minor group are classified into the following unit groups: 7421 Electronics mechanics and servicers 7422 Information and communications technology installers and servicers
Electronics mechanics and servicers	7421	Electronics mechanics and servicers fit, maintain, adjust and repair electronic equipment such as commercial and office machines and electronic instruments and control systems.	Tasks include: (a) examining and testing machines, intruments, components, other equipment, instruments and control systems to identify faults; (b) adjusting, repairing, and replacing worn and defective parts and wiring, and maintaining machines, equip	Examples of the occupations classified here: - Aircraft maintenance engineer (avionics) - Avionics technician - Automated teller machines mechanic - Electronics mechanic - Electronic equipment servicer - Photocopy machine technician Some related occupations classified elsewhere: - Air traffic safety technician - 3155
Information and communications technology installers and servicers	7422	Information and communications technology (ICT) installers and servicers install, repair and maintain telecommunications equipment, data transmission equipment, cables, antennae and conduits and repair, fit and maintain computers.	Tasks include - (a) maintaining, troubleshooting, testing and repairing computers, data transmission equipment and computer peripherals; (b) fitting and adjusting computer hardware; (c) installing, maintaining, repairing, and diagnosing malfunctions of	Examples of the occupations classified here: - Data and telecommunications cabler - Computer equipment fitter - Communications technician - Hardware technician - Telecommunications technician - Telephone installer Some related occupations classified elsewhere: - Engineering technician (telecommunications) - 3522

Food processing, wood working, garment and other craft and related trades workers	75	Food processing, wood working, garment and other craft and related trades workers treat and process agricultural and fisheries raw materials into food and other products, and produce and repair goods made of wood, textiles, fur, leather, or other materi	Tasks performed by workers in this sub-major group usually include: treating and processing meat, fish, grain, fruit, vegetables and related materials into food stuffs, and tobacco into tobacco products; tasting and grading food products and beverages;	Occupations in this sub-major group are classified into the following minor groups: 751 Food processing and related trades workers 752 Wood treaters, cabinet-makers and related trades workers 753 Garment and related trades workers 754 Other craft and rela
Food processing and related trades workers	751	Food processing and related trades workers slaughter animals, treat and prepare them and related food items for human and animal consumptions, make various kinds of bread, cakes and other flour products, process and preserve fruit, vegetables and related	Occupations in this minor group are classified into the following unit groups: - 7511 Butchers, fishmongers and related food preparers - 7512 Bakers, pastry - cooks and confectionary makers - 7513 Dairy product makers - 7514 Fruit, vegetable and	Occupations in this minor group are classified into the following unit groups: 7511 Butchers, fishmongers and related food preparers 7512 Bakers, pastry-cooks and confectionery makers 7513 Dairy-products makers 7514 Fruit, vegetable and related preser
Butchers, fishmongers and related food preparers	7511	Butchers, fishmongers and related food preparers slaughter animals, clean, cut and dress meat and fish, remove bones and prepare related food items or preserve meat, fish and other foods and food products by drying, salting or smoking.	Tasks include - (a) slaughtering animals; (b) flaying and trimming carcasses; (c) boning, cutting and dressing meat and fish for sale or further processing; (d) preparing ingredients and making sausages and similar products using chopping, mixing and	Examples of the occupations classified here: - Butcher - Fish filleter - Fishmonger - Slaughterer Some related occupations classified elsewhere: - Shop keeper - 5221 - Meat processing machine operator-8160 - Fish processing machine operator-8160
Bakers, pastry-cooks and confectionery makers	7512	Bakers, pastry-cooks and confectionery makers make various kinds of bread, cakes, and other flour products, as well as handmade chocolate and sugar confectionery.	Tasks include - (a) making bread, cakes, biscuits, pastries, pies and other flour products; (b) making handmade confectionery from mixtures of sugar, chocolate and other ingredients using hand tools and some machines; (c) combining measured ingredient	Examples of the occupations classified here: - Baker - Confectioner - Chocolate maker - Pastry-cook Some related occupations classified elsewhere: - Cook - 5120 - Bakery products machine operator - 8160 - Bread production machine operator- 8160 - Chocolate production machine operator- 8160

Dairy products makers	7513	Dairy products makers process butter and various types of cheese, cream or other dairy products.	Tasks include - (a) boiling or pasteurizing milk to achieve specified butter fat content (b) separating cream from milk and churning cream into butter; (c) dumping measured amounts of starter and other ingredients into milk; (d) curdling milk, heating	Examples of the occupations classified here: - Butter maker - Cheese maker	Some related occupations classified elsewhere: - Dairy products machine operator - 8160 - Milk processing machine operator - 8160
Fruit, vegetable and related preservers	7514	Fruit, vegetable and related preservers process or preserve fruit, nuts and related foods in various ways including cooking, drying, salting, or juice or oil extraction.	Tasks include - (a) extracting juices from various fruits; (b) extracting oils from oil-bearing seeds, nuts or fruits; (c) cooking, salting or drying fruit, vegetables and related foods; (d) mixing and adding ingredients such as pectin, sugar, spices	Examples of the occupations classified here: - Chutney maker - Fruit preserver - Jam maker - Oil expeller - Vegetable /fruit pickler - Vegetable preserver	Some related occupations classified elsewhere: - Canning machine operator - 8160
Food and beverage tasters and graders	7515	Food and beverage tasters and graders inspect, taste and grade various types of agricultural products, food and beverages.	Tasks include - (a) inspecting, testing, tasting and smelling agricultural products, food and beverages at various stages of processing; (b) determining quality, acceptability to consumer tastes and approximate value of products and grading them into a	Examples of the occupations classified here: - Food grader - Food taster - Liquor taster - Tea taster - Wine taster	
Tobacco preparers and tobacco products makers	7516	Tobacco preparers and tobacco products makers prepare tobacco leaves and make various tobacco products.	Tasks include - (a) grading cured tobacco leaves by type, quality and locality where grown; (b) mixing tobacco leaves according to formula to obtain a blend of distinct flavour; (c) tending vacuum container which moistens tobacco for further processing	Examples of the occupations classified here: - Cigar maker - Cigarette maker - Tobacco grader	Some related occupations classified elsewhere: - Cigar production machine operator - 8160 - Cigarette production machine operator - 8160
Wood treaters, cabinet-makers and related trades workers	752	Wood treaters, cabinet-makers and related trades workers preserve and treat wood; produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products; and make, decorate and repair wooden furniture, vehicles and	Tasks performed usually include: operating and tending treating and other equipment to dry lumber and other wood products, and to treat chemically and impregnate wood products with preservatives; operating woodworking machines to cut, shape and form part	Occupations in this minor group are classified into the following unit groups: 7521 Wood treaters 7522 Cabinet-makers and related workers 7523 Woodworking-machine tool setters and operators	

Wood treaters	7521	Wood treaters operate and tend wood treatment processing equipment and machines to remove bark from logs, produce wood chips, season, preserve and treat wood, and produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and sim	Tasks include - (a) operating and tending kilns, treating tanks and other equipment to dry lumber, prepare and season wood and other wood products, and to treat chemically and impregnate wood products with preservatives; (b) monitoring equipment operat	Examples of the occupations classified here: - Dry kiln operator - Lumber kiln operator - Veneer dryer tender - Wood seasoner - Wood treater	Some related occupations classified elsewhere: - Wood processing plant operators - 8172
Cabinet-makers and related workers	7522	Cabinet-makers and related workers make, decorate and repair wooden furniture, carts and other vehicles, wheels, parts, fittings, patterns, models and other wooden products using woodworking machines, machine tools and specialized hand tools.	Tasks include - (a) operating woodworking machines, such as power saws, jointers, mortisers and shapers, and using hand tools to cut, shape and form parts and components; (b) studying plans, verifying dimensions of articles to be made, or preparing spec	Examples of the occupations classified here: - Cabinet-maker - Cartwright - Furniture cabinet-maker - Wheel-wright - Wood patternmaker	Some related occupations classified elsewhere: - Carpenters and joiners - 7115 - Craft and related workers not elsewhere classified - 7549 - Wood and related products assemblers - 8219
Woodworking machine tool setters and operators	7523	Woodworking machine tool setters and operators set-up or operate and monitor automatic or semi-automatic woodworking machines, such as precision sawing, shaping, planing, boring, turning and woodcarving machines to fabricate or repair wooden parts for fu	Tasks include - (a) setting-up, programming, operating and monitoring several types of woodworking machines for sawing, shaping, boring, drilling, planing, pressing, turning, sanding or carving to fabricate or repair wooden parts for furniture, fixtures	Examples of the occupations classified here: - Carving machine operator (wood) - Furniture production machine operator - Precision woodworking sawyer - Wood products machine operator - Wood turner - Woodworking lathe operator - Woodworking machin	Some related occupations classified elsewhere: - Wood and related products assemblers – 8219
Garment and related trades workers	753	Garment and related trades workers fit, alter and repair tailored clothing; design, and make textile and fur garments, leather or fur products; repair, renovate and decorate garments, gloves and other products of textile; create patterns for garments; ins	Tasks performed usually include: fitting, altering, repairing tailored clothing; designing and making made-to-measure clothing, from textile fabrics, light leather and other material or make hats or wigs; make garment style changes; creating precision ma	Occupations in this minor group are classified into the following unit groups: 7531 Tailors, dressmakers, furriers and hatters 7532 Garment and related patternmakers and cutters 7533 Sewing, embroidery and related workers 7534 Upholsterers and relate	

Tailors, dressmakers, furriers and hatters	7531	Tasks include - (a) making overcoats, suits, skirts, shirts, blouses, lingerie, corsetry, hats, wigs and similar garments often to clients' individual requirements; (b) selecting textile fabrics, leather or fur pelts matching the desired size, colour, texture and other material, or make Tailors, dressmakers, furriers and hatters fabricate, fit, alter and repair tailored or hand-made clothing. They produce made-to-measure clothing such as suits, overcoats, and dresses from textile fabrics, light leather, fur and other material, or make Examples of the occupations classified here: - Dressmaker - Furrier - Milliner - Tailor	Some related occupations classified elsewhere: - Textile handicraft worker - 7318 - Sewing machine operator - 8153
Garment and related patternmakers and cutters	7532	Tasks include - (a) creating a master pattern for each size within a range of garment sizes, using charts, drafting instruments, computers, and/or grading devices; (b) creating the "blueprint" or pattern pieces for a particular apparel design with the Textile, leather and related patternmakers and cutters create precision master patterns for production of garments, other textile, and leather or fur products. They mark, cut, shape and trim textile, light leather and other materials according to blueprint Examples of the occupations classified here: - Garment cutter - Glove cutter - Fur pattern-maker - Garment pattern-maker	Some related occupations classified elsewhere: - Textile pattern-making machine operator - 8159

Pelt dressers, tanners and fellmongers	7535	Pelt dressers, tanners and fellmongers trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs for making garments and other products.	Tasks include - (a) sorting and grading pelts, hides and skins according to colour, shading, size and density; (b) scraping particles of flesh, fat, or protective tissue from skins or pelts to clean and soften them; (c) removing hair from skin or hide	Examples of the occupations classified here: - Fellmonger - Pelt grader - Tanner	Some related occupations classified elsewhere: - Tanning machine operator - 8155
Shoemakers and related workers	7536	Shoemakers and related workers make, modify and repair standard, custom or orthopaedic footwear and natural or synthetic leather articles, such as luggage, handbags and belts, (except for leather garments, hats and gloves), or participate in the manufacture of such articles.	Tasks include - (a) making, modifying and repairing standard footwear to meet individual requirements; (b) making, modifying and repairing orthopaedic or therapeutic footwear according to doctors' prescriptions, or modifying existing footwear for people with special requirements.	Examples of the occupations classified here: - Cobbler - Saddler - Shoemaker - Orthopaedic shoemaker Occupations in this minor group are classified into the following unit groups:	Some related occupations classified elsewhere: - Furrier - 7531 - Hatter - 7531 - Shoe production machine operator - 8156
Other craft and related workers	754	Other craft and related workers work under the surface of water, using underwater breathing apparatus; position, assemble, and detonate explosives; inspect and test, raw materials, manufactured components and products; remove unwanted organisms to prevent disease.	Tasks performed usually include: ensuring safety precautions; performing various underwater tasks, loading explosives into blast holes; mixing chemicals according to instructions; operating and monitoring equipment for spraying pests and weeds.	7541 Underwater divers 7542 Shotfirers and blasters 7543 Product graders and testers (excluding foods and beverages) 7544 Fumigators and other pest and weed controllers 75	

Underwater divers

7541

Underwater divers work under the surface of water, using underwater breathing apparatus to inspect, install, repair, and remove equipment and structures, conduct tests or experiments, rig explosives, photograph structures or marine life or find and reco

- Tasks include -
- (a) taking safety precautions, such as monitoring dive lengths and depths, and registering with authorities before diving expeditions begin;
 - (b) checking and maintaining diving equipment such as helmets, masks, air tanks, diving suits,

Examples of the occupations classified here:

- Salvage frogman
- Underwater worker

Shotfirers and blasters

7542

Shotfirers and blasters, position, assemble, and detonate explosives at mining, quarrying holes; and demolition sites.

- Tasks include -
- (a) ensuring workplace safety and explosives handling, storage and transport procedures and regulations are followed;
 - (b) planning and giving instructions for the lay out, depth and diameter of blast-
 - (c) checking depth and clean

Examples of the occupations classified here:

- Blaster
- Powderman
- Powder monkey
- Shotfirer

Some related occupations classified elsewhere:

- Driller (mining) - 8111
- Driller (oil or gas well) - 8113
- Mining Supervisor - 3121
- Mining labourer - 9311
- Quarry labourer - 9311

Product graders and testers (except foods and beverages)	7543	Product graders and testers (except foods and beverages) inspect , test, sort, sample, and weigh raw materials, manufactured components and non-comestible goods produced or sold, to ensure compliance with quality standards and to identify defects, wear,	Tasks include - (a) inspecting and testing products, parts and materials for conformity with specifications and standards; (b) grading and classifying natural textile fibres for spinning and winding; (c) discarding or rejecting products, materials, a	Examples of the occupations classified here: - Quality inspector - Product grader - Wool classer	Some related occupations classified elsewhere: - Product safety inspector - 3257 - Fruit grader - 7515 - Vegetable grader - 7515 - Fur grader - 7531 - Pelt grader - 7535
Fumigators and other pest and weed controllers	7544	Fumigators and other pest and weed controllers use chemicals to remove harmful insects, small animals, wild plants and other unwanted organisms to prevent damage to crops and to buildings and other structures and their surroundings and to prevent health	Tasks include - (a) operating and monitoring equipment for spraying pests and weeds; (b) mixing chemicals according to instructions; (c) covering areas to specified depths with pesticides, applying knowledge of weather conditions, droplet sizes, elevat	Examples of the occupations classified here: - Fumigator - Pest controller - Weed controller	Some related occupations classified elsewhere: - Aerial crop sprayer - 3153
Craft and related workers not elsewhere classified	7549	occupations not classified elsewhere in major group 7, Craft and related trades workers. For instance, the group includes those who mould, slice, grind and polish	In such cases tasks would include: (a) heating, moulding and pressing optical glass to make lens blanks; (b) grinding and polishing lens blanks.	Examples of the occupations classified here: - Optical lens finisher - Optical lens moulder	
Plant and machine operators, and assemblers	8	Plant and machine operators, and assemblers operate and monitor industrial and agricultural machinery and equipment on the spot or by remote control, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble products from	Tasks performed by plant and machine operators and assemblers usually include: operating and monitoring mining or other industrial machinery and equipment for processing metal, minerals, glass, ceramics, wood, paper, or chemicals, ; operating and monit	Occupations in this major group are classified into the following sub-major groups: 81 Stationary plant and machine operators 82 Assemblers 83 Drivers and mobile plant operators	
Stationary plant and machine operators	81	Stationary plant and machine operators operate and monitor, on the spot or by remote control, industrial plant and machinery and equipment that are stationary, or for which mobility is not an integral part of operation. The work mainly calls for experie	Tasks performed by workers in this sub-major group usually include: setting up, operating and monitoring a variety stationary plant and machinery; detecting malfunctions and taking corrective action; examining outputs for defects and conformity to specif	Occupations in this sub-major group are classified into the following minor groups:	

Mining and mineral processing plant operators	811	Mining and mineral processing plant operators operate and monitor plant and machinery which extract rock and minerals from the earth, process minerals and stone, drill wells and bores, and manufacture and finish cement and stone products.	Tasks performed usually include: setting up, operating and monitoring a variety of mining and mineral processing plant and machinery such as drilling rigs and auxiliary machines and equipment, continuous mining machinery, and cutting, crushing, grinding,	Occupations in this minor group are classified into the following unit groups: 8111 Miners and quarriers 8112 Mineral and stone processing plant operators 8113 Well drillers and borers and related workers 8114 Cement, stone and other mineral produc	Mining Supervisors are classified in Unit Group 3121.
Miners and quarriers	8111	Miners and quarriers operate plant, machinery and hand tools to extract rock, minerals and non-metallic deposits from underground and surface mines and quarries.	(a) positioning, operating and monitoring the performance of a variety of underground and surface mining equipment including continuous mining, cutting and channelling plant; (b) setting up and operating drilling equipment in underground and surface mines	Bogger Operator - Continuous Miner Operator - Dragline Operator (mining) - Mining Plant Operator - Miner - Quarrier - Roof Bolter (mining)	Some related occupations classified elsewhere: - Blaster - 7542 - Driller (oil or gas well) - 8113 - Mining Labourer - 9311 - Mining Supervisor - 3121 - Quarry Labourer - 9311 - Shotfirer - 7542
Mineral and stone processing plant operators	8112	Mineral and stone processing plant operators operate and monitor machinery and equipment for processing rocks, minerals and stone to recover refined products for immediate use or further processing.	Tasks include - (a) setting up and operating stationary plant and machinery which grind, crush, cut, saw and slice rocks, minerals and stones according to the specifications for the job; (b) positioning blocks and slabs of stone onto machines for sawin	Examples of the occupations classified here: - Coal washer - Crusher operator (mineral or stone processing) - Flotation worker (mineral processing) - Gold precipitator - Machine operator (stone cutting or processing) - Milling machine operator (minerals)	Some related occupations classified elsewhere: - Stone Cutter (hand or hand-powered tools) – 7113 - Stonemason - 7113 - Stone Polisher (hand or hand-powered tools) - 7113 - Stone Splitter (hand or hand-powered tools) - 7113 - Machine Operator (cast stone

Well drillers and borers and related workers	8113	Well drillers and borers and related workers position, assemble and operate drilling machinery and related equipment to sink wells, extract ore, liquids and gases or for a variety of other purposes.	Tasks include - (a) dismantling, moving and assembling drilling rigs and auxiliary equipment; (b) assembling and dismantling pipes, casings and drill heads, and replacing dysfunctional equipment; (c) operating controls to lower and raise drill pipes a	Examples of the occupations classified here: - Boring equipment operator - Bore sinker - Derrickman - Derrick operator - Developmental driller - Directional driller - Drilling rig operator - Jumbo operator - Power-tong operator - Toolpusher - Tourpusher	Some related occupations classified elsewhere: - Blaster - 7542 - Miner - 8111 - Quarrier - 8111
Cement, stone and other mineral products machine operators	8114	Cement, stone and other mineral products machine operators operate and monitor machines for manufacturing and finishing precast concrete, bitumen, and stone products, and making cast stone for building purposes.	Tasks include - (a) operating extrusion, moulding, mixing, pumping, compacting, grinding and cutting machinery to manufacture and finish precast concrete and stone products; (b) operating plant to produce cement, lime and clinker, including loading and tasks performed usually include: setting up, preparing and adjusting metal and ore processing and finishing machinery; co-ordinating and monitoring the operation of a particular aspect of metal processing production	Examples of the occupations classified here: - Cast-concrete products machine operator - Cast-stone products machine operator - Concrete production machine operator - Industrial diamond polishing machine operator - Stone polishing machine operator Occupations in this minor group are classified into the following unit groups: 8121 Metal processing plant operators 8122 Metal finishing, plating and coating machine operators	Some related occupations classified elsewhere: - Stone polisher (hand or hand-powered tools) - 7113 - Clay brick and tile kiln operator - 8181 - Kiln operator (cement production) - 8114 - Stone processing machine operator - 8112 - Extruding clay press operator - 8112
Metal processing and finishing plant operators	812	Metal processing and finishing plant operators operate and monitor single function process control machinery and equipment to control the conversion, processing and finishing of mineral ores and metals.			Examples of products produced by operators of plant and machines in this unit group include: mixed concrete for use in civil engineering and construction projects, flagstones, concrete bricks and tiles, fencing posts, moulded pipe sections and trench li

Metal processing plant operators	8121	Metal processing plant operators, operate, monitor, adjust and maintain, single process machinery and equipment to process and convert mineral ores and refine, harden, roll and extrude metals.	Tasks include - (a) setting up, preparing and adjusting mineral ore and metal processing machinery to carry out one step in the overall mineral ore or metal processing operation; (b) operating single-function machinery to grind, separate, filter, mix,	Examples of the occupations classified here: - Ladle pourer - Steel roller - Metal heat treating operator - Metal extrusion plant operator	Some related occupations classified elsewhere: - Blast furnace operator - 3135 - Central control caster - 3135 - Rolling mill control operator – 3135 - Metal coating machine operator - 8122
Metal finishing, plating and coating machine operators	8122	Metal finishing-, plating- and coating-machine operators operate and monitor equipment which finishes, plates and coats metal articles or parts, in order to give them improved resistance to corrosion and abrasion, for decorative purposes, or to impart el	Tasks include - (a) operating and monitoring equipment which cleans metal articles in preparation for electroplating, galvanising, enamelling or similar processes; (b) operating and monitoring electroplating equipment; (c) operating and monitoring hot tasks performed usually include: operating and monitoring machines and equipment which blend, mix, package and otherwise process chemicals and chemical products to give them the desired properties for	Examples of the occupations classified here: - Metal coating machine operator - Metal finishing machine operator - Metal plating machine operator Occupations in this minor group are classified into the following unit groups:	Some related occupations classified elsewhere: Metal processing control operator - 3135 Some related occupations classified elsewhere: - Chemical processing plant controllers - 3133 - Petroleum and natural gas refinery operators - 3134
Chemical and photographic products plant and machine operators	813	Chemical and photographic products plant and machine operators operate and monitor machines which process a variety of chemicals and other ingredients to produce pharmaceuticals, toiletries, explosives and photographic or other chemical products.	operating and monitoring machines and equipment which blend, mix, package and otherwise process chemicals and chemical products to give them the desired properties for	8131 Chemical products plant and machine operators 8132 Photographic products machine	
Chemical products plant and machine operators	8131	Chemical products plant and machine operators monitor and operate units and machinery to blend, mix, process and package a wide range of chemical products.	Tasks include - (a) Setting up, starting, controlling, adjusting and stopping machines and plant; (b) Monitoring reaction processes and transfers of products in conformance with safety procedures; (c) Monitoring meters, gauges and electronic instrumenta	Examples of the occupations classified here: - Blender/petroleum and natural gas refining (ethyl) operator - Still/petroleum and natural gas refining machine operator - Pharmaceutical and toiletry products machine operators - Candle production machine	Some related occupations classified elsewhere: - Chemical processing plant controllers -3133 - Petroleum and natural gas refining plant operators - 3134

Photographic products machine operators	8132	Photographic-products machine operators operate and monitor equipment which makes photographic film and paper, and which processes exposed photographic film and makes prints. Rubber, plastic and paper products machine operators operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber and plastics or produce different paper prod	Tasks include - (a) operating and monitoring equipment which makes photographic film and paper; (b) operating, monitoring and testing photographic processing and printing equipment, and maintaining operational standards (c) preparing exposed film to operating and monitoring machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber and plastics; operating and monitoring machines which produ	Examples of occupations classified here: - Darkroom technician - Photographic processor - Photographic film printer - Developing machine operator - - Enlarging machine operator- - Photographic-film machine operator - Printin Some related occupations classified elsewhere: - 3431 Photographers classified into the following unit groups: 8141 Rubber products machine operators 8142 Plastic products machine operators 8143 Paper products machine
Rubber products machine operators	8141	Rubber-products machine operators operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber, such as moulded footwear, domestic articles, insulating materi	Tasks include - (a) operating and monitoring machines which knead, mix and blend rubber and rubber compounds for further processing; (b) operating and monitoring machines which produce sheets of rubber or rubberised fabric by a rolling process; (c) ope	Examples of the occupations classified here: - Latex worker - Extruding/rubber machine operator - Rubber milling machine operator - Rubber moulder - Rubber products machine operator - Tyre maker - Tyre repairer - Vulcaniser
Plastic products machine operators	8142	Products machine operators operate and monitor machines which knead and blend compounds to obtain plastic materials and which make various plastic components and articles.	Tasks include - (a) operating and monitoring machines which knead and blend compounds to obtain plastic materials; (b) operating and monitoring machines which shape plastic materials by moulding, extrusion, blowing, cutting and other means; (c) operati	Examples of the occupations classified here: - Plastics boat builder - Plastics bottle blowing machine operator - Laminated press operator, plastics - Plastic extrusion machine operator - Plastics products machine operator - Optic fibre drawe

Paper products machine operators	8143	Paper products machine operators operate and monitor machines which produce boxes, envelopes, bags and other goods from paper, paperboard, cardboard and similar materials.	Tasks include - (a) operating and monitoring machines which glue paper to cardboard, cut it to the required length or cut and crease cardboard or paperboard to form box blanks; (b) operating and monitoring pressing machines which form drinking cups or o	Examples of the occupations classified here: - Machine operator (cardboard products) - Machine operator (envelope and paper bag production) - Machine operator (paper box production) - Paper products machine operator - Papier mache moulder
Textile, fur and leather products machine operators	815	Textile, fur and leather products machine operators operate and monitor various types of machines which prepare, process and treat fibres, yarn, thread, leather, fur; produce, modify and repair footwear, garments and manufacture or dry clean textiles or	Tasks include - operating and monitoring weaving and knitting machines which process yarn or thread into woven, non-woven and knitted products; operating and monitoring machines which prepare fibres, and spin, double, twist and wind yarn and thread from n	Occupations in this Minor Group are classified into the following unit groups: 8151 Fibre preparing, spinning and winding machine operators 8152 Weaving and knitting machine operators 8153 Sewing machine operators 8154 Bleaching, dyeing and fabric cl
Fibre preparing, spinning and winding machine operators	8151	Fibre-preparing, spinning and winding machine operators operate and monitor machines which prepare fibres, and spin, double, twist and wind yarn and thread from natural textile fibres. They twist two or more strands of yarn to prepare single stronger, sm	Tasks include - (a) operating and monitoring machines for tearing woollen rags into fibre; (b) operating and monitoring machines for cleaning and turning woollen yarn waste into fluffed wool; (c) operating and monitoring machines which combine textil	Examples of the occupations classified here: - Fibre preparing machine operator - Spinning/thread and yarn machine operator - Twisting/thread and yarn machine operator - Winding/thread and yarn machine operator

Weaving and knitting machine operators	8152	Weaving and knitting machine operators set up, operate and monitor weaving and knitting machines which process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments.	Tasks include - (a) setting up and operating batteries of automatic, link-type knitting machines to knit garments of specified pattern and design; (b) threading yarn, thread, and fabric through guides, needles, and rollers of machines for weaving, knit	Examples of the occupations classified here: - Knitting machine operator - Net production machine operator - Weaving machine operator - Weaving/carpets machine operator	Some related occupations classified elsewhere: - Knitter - 7318 - Carpet weaver - 7318 - Cloth weaver - 7318
Sewing machine operators	8153	Sewing machine operators operate and monitor sewing machines to make, repair, darn and renovate textile, fur, synthetic or leather garments or embroider ornamental designs on garments or other materials. They operate button hole making and eyelet holing	Tasks include - (a) operating or tending sewing machines to perform garment sewing operations, such as joining, reinforcing, seaming or decorating garments or garment parts; (b) attaching buttons, hooks, zippers, fasteners, or other accessories to fab	Examples of the occupations classified here: - Sewing machine operator - Embroidery machine operator	Some related occupations classified elsewhere: - Embroiderer - 7533 - Furrier - 7531 - Handicraft /textiles worker - 7318 - Sewer - 7533 - Tailor - 7531

Bleaching, dyeing and fabric cleaning machine operators	8154	Bleaching, dyeing and fabric cleaning machine operators operate and monitor machines that bleach, shrink, dye, and otherwise treat fibres, yarn or cloth.	Tasks include - (a) starting and controlling machines and equipment to bleach, dye, or otherwise process and finish fabric, yarn, thread, and/or other textile goods; (b) tending machines that shrink woven or knitted cloth to predetermined size or stren	Examples of the occupations classified here: - Fabric bleaching machine operator - Textile dyeing machine operator	Some related occupations classified elsewhere: - Laundry machine operator - 8157 - Hand launderer - 9121 - Hand presser - 9121
Fur and leather preparing machine operators	8155	Fur and leather preparing machine operators operate and monitor various machines that prepare leather or treat fur- or wool-bearing pelts. They trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs	Tasks include - (a) operating and monitoring machines which remove flesh and fat from hides or pelts to clean and soften them prior to processing; (b) operating and monitoring machines which remove long coarse hair from fur pelts, trim hair to even len	Examples of the occupations classified here: - Dehairing/hide machine operator - Staining/leather machine operator - Tanning machine operator	Some related occupations classified elsewhere: - Pelt dyer - 7535 - Tanner - 7535
Shoemaking and related machine operators	8156	Shoemaking and related machine operators operate and monitor machines which produce and repair standard or special footwear, handbags and other accessories, mainly made of leather.	(a) operating and monitoring machines which mark patterns and cut shoe parts; (b) operating and monitoring machines which sew shoe parts together, or edge, polish, or apply ornaments and perform finishing tasks; (c) operating and monitor	Examples of the occupations classified here: - Machine operator (footwear production)	Some related occupations classified elsewhere: - Cobbler - 7536 - Handicraft worker (leather) - 7318

Laundry machine operators	8157	Laundry machine operators operate laundry, dry cleaning, pressing and fabric treatment machines in laundries and drycleaning establishments.	Tasks include - (a) sorting articles for cleaning according to the type colour, fabric and cleaning treatment required; (b) placing sorted articles into receptacles and onto conveyor belts for moving to repair and cleaning areas; (c) checking and remov	Examples of the occupations classified here: - Dry-cleaning machineoperator - Laundry machine operator - Pressing machine operator (laundry)	Some related occupations classified elsewhere: - Hand launderer - 9121 - Hand presser - 9121
Textile, fur and leather products machine operators not elsewhere classified	8159	This unit group covers textile, fur and leather products machine operators not classified elsewhere in Minor group 815. Textile, fur and leather products machine operators. For instance, the group includes those engaged in operating and monitoring machi	Tasks include - (a) operating and monitoring machines which form and make hats out of textiles, fur or leather; (b) operating and monitoring machines which make miscellaneous articles such as braids or other trimmings; (c) operating and monitoring mac	Examples of the occupations classified here: - Braid making machine operator - Hat making machine operator - Textile pattern making machine operator - Tent making machine operator	
Food and related products machine operators	816	Food and related machine operators set, operate and attend machinery used to slaughter animals, trim meat from carcasses; bake, freeze, heat, crush, mix, blend and otherwise process foodstuffs, beverages and tobacco leaves.	Task performed usually include: operating and monitoring machinery used to restrain, stun, slaughter animals and trim carcasses into standard meat and fish cuts; setting, operating and attending machinery and ovens to mix, bake and otherwise prepare bread	Occupations in this minor group are classified into the following unit groups: 8160 Food and related products machine operators	
Food and related products machine operators	8160	Food and related machine operators set, operate and attend machinery used to slaughter animals, trim meat from carcasses; bake, freeze, heat, crush, mix, blend and otherwise process foodstuffs, beverages and tobacco leaves.	Tasks include - (a) operating and monitoring machinery used to restrain, stun, slaughter animals and trim carcasses into standard meat and fish cuts; (b) setting, operating and attending machinery and ovens to mix, bake and otherwise prepare bread and	Examples of the occupations classified here: - Bakery products machine operator - Bread production machine operator - Chocolate production machine operator - Cigar production machine operator - Cigarette production machine operator - Dairy products	Some related occupations classified elsewhere: - Bottling machine operator - 8183

Wood processing and papermaking plant operators	817	Wood processing and papermaking plant operators monitor, operate, and control automated lumber mill equipment sawing wood, cutting veneer and making plywood, and otherwise preparing wood for further use. Pulp mill machine operators operate and monitor various Tasks include - (a) examining logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or operating automated equipment to convey logs through laser scanners which determine the most p Occupations in this minor group are classified into the following unit groups: 8171 Pulp and papermaking plant operators 8172 Wood processing plant operators
Pulp and papermaking plant operators	8171	Pulp and papermaking plant operators operate and monitor multi-function process control machinery and processing equipment to control the processing of wood, scrap pulp and other cellulose materials in the production of pulp. Tasks include - (a) co-ordinating and monitoring the operation of screening equipment, washing equipment, digesters, mixing tanks and other pulp processing equipment from automated panel boards in central control room to control the processing of wood, s Examples of the occupations classified here: - Paper and pulp mill worker - Pulp and paper assistant bleacher operator - Pulp and paper digester operator - Pulp and paper grinderman/woman - Pulp and paper refiner operator - Pulping control operator
Wood processing plant operators	8172	Wood processing plant operators monitor, operate, and control automated lumber mill equipment for sawing timber logs into rough lumber, cutting veneer, making plywood and otherwise preparing wood for further use. Tasks include - (a) examining logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or operating automated equipment to convey logs through laser scanners which determine the most p Examples of the occupations classified here: - Circular-saw operator - Log cut-off operator - Plywood press-operator - Sawmill operator - Sawmill planer operator - Sawmill trimmer operator - Wood-processing plant sawyer Some related occupations classified elsewhere: - Wood treaters - 7521

Other stationary plant and machine operators	818	This unit group includes stationary plant and machine operators not classified elsewhere in sub-major group 81, Stationary plant and machine operators. The group includes, for instance, operators of machines which make silicon chips and splice cables and	Taks performed usually include: monitor ingkilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks; operating machines to anneal, harden or decorate glass and ceramics; maintaining and oper	Occupations in this minor group are classified into the following unit groups: 8181 Glass and ceramics plant operators 8182 Steam engine and boiler operators 8183 Packing, bottling and labelling machine operators
Glass and ceramics plant operators	8181	Glass and ceramics plant operators operate and monitor kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks. They operate machines to anneal, harden or decorate glass and ceramics.	Tasks include - (a) operating and monitoring glass-making furnaces to make glass by melting and fusing pre-mixed ingredients (b) tending hot- or cold-end spray equipment used to coat glassware with surface hardener (c) operating and maintaining machine	Examples of the occupations classified here: - Furnace-operator, glass production - Kiln-operator, brick and tile - Kiln-operator, pottery and porcelain - machine operator, blowing/glass - machine operator, mixing/clay - machine operator, mixing/gla Some related occupations classified elsewhere: - Blower, glass - 7315 - Cutter, glass -7315 - Moulder, brick and tile - 7314
Steam engine and boiler operators	8182	Steam engine and boiler operators maintain and operate various types of steam engines, boilers, turbines and auxiliary equipment to provide power and other utility services for commercial, industrial and institutional buildings, at work sites and aboard	(a) operating, cleaning, lubricating and monitoring steam engines, boilers and auxiliary equipment such as pumps, compressors and air-conditioning equipment to supply and maintain steam and power for buildings, marine vessels or pneumatic tools; (b) ana	Examples of the occupations classified here: - Boiler tender - Ship's boiler operator - Stationary engineer - Steam engine operator - Stoker - Thermal plant operator Some related occupations classified elsewhere: - Ship's engineer - 3151 - Stationary engine fitter - 7233

Packing, bottling and labelling machine operators	8183	Packing, bottling and labelling machine operators operate and monitor machines which weigh, pack and label various products, or fill different containers with products.	Tasks include - (a) operating and monitoring machines that weigh, wrap, seal and pack various products; (b) operating and monitoring machines that fill and seal tubes, bottles, cans, boxes, bags and other containers with products, such as food, beverage	Examples of the occupations classified here: - Bottle filler - Labelling machine operator - Packing machine operator - Wrapping machine operator	Some related occupations classified elsewhere: - Hand packer - 9321
Stationary plant and machine operators not elsewhere classified	8189	machine operators not classified elsewhere in sub-major group 81, Stationary plant and machine operators. The group includes, for instance, operators of machines which make components to form subassemblies,	sub-major group usually include: assembling components into various types of products and equipment, according to strictly laid down	here: - Silicon chip production machine operator - Cable and rope splicing machine	
Assemblers	82	products and equipment, according to strictly laid down procedures. The products worked on may be moved from one worker to the	according to strictly laid down	Occupations in this sub-major group are classified into the following minor group: 821 Assemblers	
Assemblers	821	Assemblers assemble prefabricated parts or components to form subassemblies, products and equipment, according to strictly laid down procedures. The products worked on may be moved from one worker to the next along assembly lines.	Tasks performed usually include: assembling components into various types of products and equipment, according to strictly laid down procedures; reviewing work orders, specifications, diagrams and drawings to determine materials needed and assembly instru	classified into the following unit groups: 8211 Mechanical machinery assemblers 8212 Electrical and electronic equipment assemblers 8219 Assemblers not elsewhere classified	
Mechanical machinery assemblers	8211	Mechanical machinery assemblers assemble, according to strictly laid down procedures, component parts of mechanical machinery such as engines, motor vehicles, turbines and aircraft.	Tasks include - (a) assembling and installing prefabricated parts or components to form subassemblies, mechanical machinery, engines and finished motor vehicles; (b) reviewing work orders, specifications, diagrams and drawings to determine materials ne	Examples of the occupations classified here: - Gearbox assembler - Engine assembler - Bench fitter (trucks) - Vehicle assembler - Engine installer - Aircraft assembler - Turbine assembler	Some related occupations classified elsewhere: - Bicycle assembler - 8219 - Electro-mechanical equipment assembler - 8212
Electrical and electronic equipment assemblers	8212	Electrical and electronic equipment assemblers assemble or modify, according to strictly laid down procedures, components of electrical, electro-mechanical and electronic equipment.	Tasks include - (a) assembling component parts and electrical and electronic systems and positioning, aligning and fastening units to assemblies, sub-assemblies, or frames using hand or power tools, soldering and micro-welding equipment.; (b) reviewin	Examples of the occupations classified here: - Armature assembler - Assembler, electronic equipment - Electrical equipment assembler - Electromechanical equipment assembler - Electronic equipment assembler - Etcher (printed circuit board)	Some related occupations classified elsewhere: Precision instrument-makers – 7311 Electronics mechanics and servicers – 7421

				Examples of the occupations classified here: - Ammunition assembler - Assembler, metal products (except mechanical) - Assembler, plastic products - Assembler, rubber products - Assembler, wood products - Box builder - Bicycle assembler - Door ass Occupations in this sub-major group are classified into the following minor groups:
Assemblers not elsewhere classified	8219	Assemblers not elsewhere classified assemble, according to strictly laid down procedures various products that do not include electronic, electrical, or mechanical components.	Tasks include - (a) assembling component parts and positioning, aligning and fastening units to assemblies, sub-assemblies, or frames using hand or power tools, soldering and micro-welding equipment; (b) reviewing work orders, specifications, diagrams	
Drivers and mobile plant operators	83	Drivers and mobile plant operators drive and tend trains and motor vehicles, or drive, operate and monitor industrial and agricultural machinery and equipment, or execute deck duties on board ship and other water-borne craft.	Tasks performed by workers in this sub-major group usually include: driving and tending trains and motor vehicles; driving, operating and monitoring mobile industrial and agricultural machinery and equipment; carrying out deck duties on board ship and of tasks performed usually include driving or assisting in driving railway engines, operating railway signals, switching rolling stock and making up trains in railway yards, making up trains in mines and controlling their	831 Locomotive engine drivers and related workers 832 Car, van and motorcycle drivers 833 Heavy truck and bus drivers 834 Mobile plant operators 835 Ships' deck crews and Occupations in this minor group are classified into the following unit groups:
Locomotive engine drivers and related workers	831	Locomotive engine drivers and related workers drive, or assist in driving, locomotive engines to transport passengers and freight, take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signal		8311 Locomotive engine drivers 8312 Railway brake, signal and switch operators
Locomotive engine drivers	8311	Locomotive-engine drivers drive, or assist in driving, locomotive engines to transport passengers and freight.	Tasks include - (a) driving or assisting in driving a steam, electric or diesel-electric locomotive engine; (b) driving an underground or elevated passenger train; (c) driving a locomotive to haul carriages underground or on the surface of a mine or qu	Examples of the occupations classified here: - Locomotive driver - Train driver Some related occupations classified elsewhere: - Tram driver - 8331
Drivers of vehicles that operate on fixed rail systems that are separated from public roadways are classified in Unit Group 8311 Locomotive engine drivers. Drivers of vehicles for passenger transportation on fixed rails that are incorporated in the public				

Railway brake, signal and switch operators	8312	Railway brakemen, signallers and shunters take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in	Tasks include - (a) taking charge of and safeguarding freight train during run; (b) controlling flow of railway traffic over section of line by operating signals and switches from control panel or signal box; (c) switching and coupling rolling stock	Examples of the occupations classified here: - Braker, railway - Shunter, railway - Signaller, railway	
Car, van and motorcycle drivers	832	Car, van and motorcycle drivers drive and tend motor cycles, motorized tricycles, cars or vans to transport passengers, materials or goods.	Tasks performed usually include: driving and tending motor cycles, motorised tricycles, cars or vans in order to transport materials, goods or passengers.	Occupations in this minor group are classified into the following unit groups: 8321 Motorcycle drivers 8322 Car, taxi and van drivers	
Motorcycle drivers	8321	Motor-cycle drivers drive and tend motor cycles or motorised tricycles equipped to transport materials, goods or passengers.	(a) driving and tending motor cycle or motorised tricycle to transport materials, goods and passengers; (b) observing traffic rules and signals; (c) cleaning and washing vehicle as well as performing maintenance and minor repairs; (d)	Examples of the occupations classified here: - Dispatch rider - Driver (motorized rickshaw) - Driver (motorized tricycle) - Motorcyclist	Some related occupations classified elsewhere: - Driver (pedal vehicle) - 9331
Car, taxi and van drivers	8322	Car, taxi and van drivers drive and tend motor cars and vans to transport passengers, mail or goods.	Tasks include - (a) driving and tending passenger, vans, cars or taxis; (b) driving and tending cars, vans or small trucks to deliver mail or goods; (c) assisting passengers with handling of luggage; (d) collecting fares, payments for deliveries, or d	Examples of the occupations classified here: - Driver, car - Driver, taxi - Driver, van	Some related occupations classified elsewhere: - Driver, bus - 8331 - Driver, heavy track - 8332 - Driver, auto-rickshaw - 8321
Heavy truck and bus drivers	833	Heavy truck and bus drivers drive and tend heavy trucks, lorries, buses or street tramcars to transport goods, liquids, heavy materials, mail or passengers.	Tasks performed usually include: driving and tending heavy trucks, lorries, buses or street tramcars in order to transport goods, liquids, heavy materials, mail or passengers.	Occupations in this minor group are classified into the following unit groups: 8331 Bus and tram drivers 8332 Heavy truck and lorry drivers	
Bus and tram drivers	8331	Bus and tram drivers drive and tend buses or transporting passengers; street tramcars to transport passengers, mail or goods.	(a) driving and tending motor bus, trolley bus or motor coach to transport local or long- distance passengers, mail or goods; (b) driving and tending street tramcar or transporting passengers; (c) opening and closing doors before or after passengers board	Examples of the occupations classified here: - Driver, bus - Driver, tram - Driver, motor coach	

Heavy truck and lorry drivers	8332	Heavy-truck and lorry drivers drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.	Tasks include - (a) driving and tending a heavy motor vehicle, such as a lorry with or without trailer or a dump-truck, to transport goods, liquids or heavy materials over short or long distances; (b) determining the most appropriate routes; (c) ensure	Examples of the occupations classified here: - Heavy truck driver - Concrete mixer driver - Road train driver Occupations in this minor group are classified into the following unit groups:	Some related occupations classified elsewhere: - Van driver - 8322
Mobile plant operators	834	Mobile plant operators drive, tend, operate and monitor special-purpose motorised, machinery or equipment used for clearing or preparing land; digging, moving, and spreading earth, rock and similar materials; and lifting or moving heavy objects.	Tasks performed usually include: preparing and positioning plant for operation; adjusting speed, height and depth of implements; driving and operating mobile plant; operating attachments to lift, swing and release trees, logs, earth and other heavy object	8341 Mobile farm and forestry plant operators 8342 Earthmoving and related plant operators 8343 Crane, hoist and related plant operators	
Mobile farm and forestry plant operators	8341	Mobile farm and forestry plant operators drive, tend, operate and monitor one or more types of special-purpose motorised, mobile machinery or equipment used in agricultural, horticultural and forestry operations.	Tasks include - (a) driving and tending tractor-drawn or self-propelled special-purpose farm machinery to plough land and sow, fertilize, cultivate and harvest crops; (b) driving and tending tractor-drawn or self-propelled special-purpose forestry mach	Examples of the occupations classified here: - Harvester operator - Logging plant operator - Timber carrier driver - Tractor driver - Tree faller operator	Some related occupations classified elsewhere: - Bulldozer operator - 8342
Earthmoving and related plant operators	8342	Earthmoving and related plant operators operate machines to excavate, grade, level, smooth and compact earth or similar materials.	Tasks include - (a) operating and monitoring excavating machinery equipped with moveable shovel, grab-bucket or dragline bucket, to excavate and move earth, rock, sand, gravel or similar materials; (b) operating and monitoring machinery for digging tren	Examples of the occupations classified here: - Operator, bulldozer - Operator, excavator - Operator, pile-driver - Operator, road-roller - Operator, front-end loader - Operator, snow groomer	

Crane, hoist and related plant operators	8343	Crane, hoist and related plant operators operate and monitor stationary and mobile cranes and other hoisting equipment.	Tasks include - (a) operating and monitoring stationary or mobile cranes by raising and lowering jibs and booms, to lift, move, position or place equipment and materials; (b) operating and monitoring equipment for hoisting, lowering or raising workers a	Examples of the occupations classified here: - Operator, crane - Operator, hoist - Operator, mobile crane - Operator, tower crane
Lifting truck operators	8344	Lifting-truck operators drive, operate and monitor lifting-truck or similar vehicle to transport, lift and stack pallets with goods.	Tasks include - (a) operating and monitoring lifting-truck and similar equipment to load and unload, transport, lift and stack goods and pallets in terminals, harbours, warehouses, factories and other establishments; (b) positioning lifting devices and standing look-out watches at sea and when entering or leaving harbour or other narrow waters;	Examples of the occupations classified here: - Forklift truck driver
Ships' deck crews and related workers	835	Ship's deck crews and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.	Tasks include - (a) standing look-out watches at sea and when entering or leaving harbour or other narrow waters; (b) steering ship according to instructions; (c) handling ropes and wires, and operates mooring equipment; (d) maintaining and, in some ca	Occupations in this minor group are classified into the following unit groups: 8350 Ships' deck crews and related workers
Ships' deck crews and related workers	8350	Ship's deck crews and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.	Tasks include - (a) standing look-out watches at sea and when entering or leaving harbour or other narrow waters; (b) steering ship according to instructions; (c) handling ropes and wires, and operates mooring equipment; (d) maintaining and, in some c	Examples of the occupations classified here: - Boatswain - Ferry hand - Tug hand - Sailor
Elementary occupations	9	Elementary occupations involve the performance of simple and routine tasks which may require the use of hand-held tools and considerable physical effort. Most occupations in this major group require skills at the first ISCO skill level.	Tasks performed by workers in elementary occupations usually include: cleaning, restocking supplies and performing basic maintenance in apartments, houses, kitchens, hotels, offices and other buildings; washing cars and windows; helping in kitchens and p	Occupations in this major group are classified into the following sub-major groups: 91 Cleaners and helpers 92 Agricultural, forestry and fishery labourers 93 Labourers in mining, construction, manufacturing and transport 94 Food preparation assistants

Cleaners and helpers	91	Cleaners and helpers perform various tasks in private households, hotels, offices, hospitals and other establishments, as well as in aircraft, trains coaches, trams and similar vehicles, in order to keep the interiors and fixtures clean, and launder and press domestic, hotel and office cleaners and helpers sweep, vacuum clean, wash, polish, take care of household linen, purchase household supplies; perform various tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments.	Tasks performed by workers in this sub-major group usually include: sweeping or vacuum cleaning, washing and polishing floors, furniture and other objects; taking care of linen and bed-making; helping with preparation of tasks performed usually include: sweeping or vacuum cleaning, washing and polishing floors, furniture and other objects in hotels, offices and other establishments; making beds, supplying towels, soap and related	Occupations in this sub-major group are classified into the following minor groups: 911 Domestic, hotel and office cleaners and helpers Occupations in this minor group are classified into the following unit groups: 9111 Domestic cleaners and helpers 9112 Cleaners and helpers in offices, hotels and other establishments
Domestic, hotel and office cleaners and helpers	911			
Domestic cleaners and helpers	9111	Domestic cleaners and helpers sweep, vacuum clean, wash and polish, take care of household linen, purchase household supplies, prepare food, serve meals and perform various other domestic duties.	Tasks include - (a) sweeping, vacuum-cleaning, polishing and washing floors and furniture, or washing windows and other fixtures; (b) washing, ironing and mending linen and other textiles; (c) washing dishes; (d) helping with preparation, cooking and Tasks include - (a) sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures in buildings, coaches, buses, trams, trains and aircraft; (b) making beds, cleaning bathrooms, supplying towels, soap and related items; (c) cleaning	Examples of the occupations classified here: - Charworker (domestic) - Domestic cleaner Some related occupations classified elsewhere: - Hotel cleaner - 9112 - Domestic housekeeper - 5152 - Hand launderer - 9121 - Street sweeper - 9613
Cleaners and helpers in offices, hotels and other establishments	9112	Cleaners and helpers in offices, hotels and other establishments perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as of aircraft, trains, buses and similar vehicles.	(b) making beds, cleaning bathrooms, supplying towels, soap and related items; (c) cleaning	Examples of the occupations classified here: - Cleaner, aircraft - Cleaner, hotel - Cleaner, office - Lavatory attendant Some related occupations classified elsewhere: - Caretaker, building - 5153 - Cleaner, domestic - 9111 - Housekeeper, domestic - 5152 - Sweeper, street - 9613 - Helper, kitchen - 9412 - Dishwasher - 9412
Vehicle, window, laundry and other hand cleaning workers	912	Vehicle, window, laundry and other hand cleaning workers clean windows, showcases or other surfaces of buildings or vehicles and press, launder or dry-clean linen and other textiles by hand.	Tasks usually include: cleaning, washing and polishing cars; washing windows or other glass surfaces with water or various solutions, drying and polishing them; laundrying and pressing linen, clothing, fabrics and similar articles by hand in a laundry or	Occupations in this minor group are classified into the following unit groups: 9121 Hand launderers and pressers 9122 Vehicle cleaners 9123 Window cleaners 9129 Other cleaning workers
Hand launderers and pressers	9121	Hand launderers and pressers launder, press or dry-clean garments, linen and other textiles by hand.	Tasks include - (a) laundering and pressing linen, clothing, fabrics and similar articles by hand in a laundry or other establishment; (b) cleaning, by hand and with chemical solutions, clothing, fabrics, leather goods and similar articles, in a dry-clean	Examples of the occupations classified here: - Dry-cleaner, hand - Launderer, hand - Presser, hand Some related occupations classified elsewhere: - Dry-cleaning machine operator - 8157 - Pressing machine operator (laundry) - 8157 - Laundry machine operator - 8157

Workers who perform cleaning and helping tasks only in kitchens and other food preparation areas are classified in Unit Group 9412, kitchen helpers.

Vehicle cleaners	9122	Vehicle cleaners, wash, clean and polish vehicles.	Tasks include - (a) cleaning, washing and polishing cars and other vehicles, by hand or using hand-held power tools; (b) vacuuming vehicle interiors and dry cleaning carpets and upholstery; (c) applying cleaning agents to remove stains from vehicle exteriors (a) washing windows or other glass surfaces with water or various solutions, drying and polishing them; (b) using ladders, swinging scaffolds, bosun's chairs, hydraulic bucket trucks and other equipment to reach and clean windows in multi-story buildings	Examples of the occupations classified here: - Vehicle washer (hand) - Car detailer
Window cleaners	9123	Window cleaners wash and polish windows and other glass fittings.	(a) Cleaning carpets and upholstered furniture using cleaning machines and their attachments. (b) Selecting and applying cleaning agents to remove stains from carpets (c) Treating carpets with soil-repellent chemicals and deodorants, and treating for pet odors	Examples of the occupations classified here: - Window cleaner - Carpet cleaner - Cooling tower cleaner - Graffiti cleaner - Swimming pool cleaner
Other cleaning workers	9129	Other cleaning workers clean surface, materials and objects, such as carpets, walls, swimming pools and cooling towers, using specialized cleaning equipment and chemicals.		
Agricultural, forestry and fishery labourers	92	Agricultural, forestry and fishery labourers perform simple and routine tasks in the production of crops and livestock, cultivation and maintenance of gardens and parks, exploitation and conservation of forests, and conduct of aquaculture and fisheries	Tasks performed usually include: digging, raking and shovelling using hand tools; loading unloading and stacking supplies, produce and other materials; watering, thinning, weeding and tending crops by hand or using hand tools; planting, harvesting picking	Occupations in this sub-major group are classified into the following minor group: 921 Agricultural, forestry and fishery labourers Occupations in this minor group are classified into the following unit groups: 9211 Crop farm labourers 9212 Livestock farm labourers 9213 Mixed crop and livestock farm labourers 9214 Garden and horticultural labourers 9215 Forestry labourers 9216
Agricultural, forestry and fishery labourers	921	Agricultural, forestry and fishery labourers perform simple and routine tasks in the production of crops and livestock, cultivation and maintenance of gardens and parks, exploitation and conservation of forests, and conduct of aquaculture and fisheries	Tasks performed usually include: digging, raking and shovelling using hand tools; loading unloading and stacking supplies, produce and other materials; watering, thinning, weeding and tending crops by hand or using hand tools; planting, harvesting picking	Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in minor group 921, Agricultural, forestry and fishery labourers. Workers in an ag

Crop farm labourers	9211	Crop farm labourers perform simple and routine tasks in the production of crops such as fruit, nuts, grains and vegetables on farms.	Tasks include - (a) digging and shovelling to clear ditches or for other purposes; (b) loading and unloading supplies, produce and other materials; (c) raking, pitching and stacking straw, hay and similar material; (d) watering, thinning, and weeding	Examples of the occupations classified here: - Cane planter - Fruit picker - Rice farm labourer - Vegetable picker	Some related occupations classified elsewhere: - Skilled farm worker (field crops) - 6111 - Construction labourer - 9313 - Firewood collector - 9624 - Water collector - 9624
Livestock farm labourers	9212	Livestock farm labourers perform simple and routine tasks in farm production of animals, including poultry and insects.	Tasks include - (a) digging and shovelling to clear ditches or for other purposes; (b) loading and unloading supplies, produce and other materials; (c) feeding, watering, and cleaning animals and keeping their quarters clean; (d) monitoring livestock	Examples of the occupations classified here: - Livestock farm labourer	Some related occupations classified elsewhere: - Shepherd – 6121 - Skilled farm worker (livestock) - 6121 - Drover - 6121 - Firewood collector - 9624 - Water collector - 9624
Mixed crop and livestock farm labourers	9213	Mixed crop and livestock farm labourers perform simple and routine tasks in farm production of both crops and animals.	Tasks include - (a) digging and shovelling to clear ditches or for other purposes; (b) loading and unloading supplies, produce and other materials; (c) raking, pitching and stacking straw, hay and similar material; (d) watering, thinning, and weeding	Examples of the occupations classified here: - Farm labourer	Some related occupations classified elsewhere: - Skilled farm worker (mixed crop and livestock) - 6130 - Firewood collector - 9624 - Water collector - 9624

Garden and horticultural labourers	9214	Garden and horticultural labourers perform simple and routine tasks in operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, to produce saplings, bulbs and seeds, or grow vegetables and flowers by inte Tasks include - (a) loading, unloading and moving supplies, produce and equipment; (b) preparing garden sites and plots using hand tools and simple machines; (c) assisting with planting and transplanting flowers, shrubs, trees and lawns; (d) maintain	Examples of the occupations classified here: - Garden labourer - Horticultural labourer - Lawn mower - Nursery labourer	Some related occupations classified elsewhere: - Market gardener - 6113 - Landscape gardener - 6113 - Horticulturist - 6113 - Crop farm labourer - 9211
Forestry labourers	9215	Forestry labourers perform simple and routine tasks to cultivate and maintain natural and plantation forests, and logging, felling and sawing trees. Tasks include - (a) digging holes for tree planting; (b) stacking and loading logs and timber; (c) clearing undergrowth in forest stands and thinning young plantations; (d) maintaining look-out for fires in forests; (e) removing major branches and t	Examples of the occupations classified here: - Axeman/woman - Forestry labourer - Tree planter	Some related occupations classified elsewhere: - Forestry worker (skilled)- 6210
Fishery and aquaculture labourers	9216	Fishery and aquaculture labourers, perform simple and routine tasks to cultivate, catch and harvest fish and seafood in aquaculture and inland, coastal and deep sea fishing operations. Tasks include - (a) cleaning the sea-bed and feeding fish and molluscs that are being cultivated; (b) gathering seaweed, sea mosses, clams and other molluscs; (c) preparing nets, lines and other fishing tackle and other deck equipment; (d) operating	Examples of the occupations classified here: - Aquaculture labourer - Fishery labourer	Some related occupations classified elsewhere: - Fish farmer - 6221 - Coastal fishery skipper - 6222 - Fisherman/woman (coastal waters) - 6222 - Fisherwoman/man (inland waters) - 6222 - Deep sea fisherman/woman - 6223 - Trawler skipper - 6223
Labourers in mining, construction, manufacturing and transport	93	Labourers in mining, construction, manufacturing and transport perform simple and routine manual tasks in mining, quarrying, civil engineering, building, manufacturing, transport and storage operations, and operate human powered and animal drawn vehicles Task performed by workers in this sub-major group usually include: digging holes and spreading excavated materials, sand, soil, and gravel using hand-held tools; sorting, loading, unloading, moving stacking and storing materials, equipment, products, sup	Occupations in this sub-major group are classified into the following minor groups: 931 Mining and construction labourers 932 Manufacturing labourers 933 Transport and storage labourers	
Mining and construction labourers	931	Mining and construction labourers perform simple and routine manual tasks in mining, quarrying, civil engineering and building operations. Tasks usually include: digging and filling holes and trenches using hand held tools; shovelling and spreading excavated materials, sand, soil, and gravel; sorting, loading, unloading, stacking and storing tools, materials and equipment and transporting t	Occupations in this minor group are classified into the following unit groups: 9311 Mining and quarrying labourers 9312 Civil engineering labourers 9313 Building construction labourers	

Mining and quarrying labourers	9311	Mining and quarrying labourers perform routine tasks in mining and quarrying operations.	Tasks include - (a) assisting miners and quarriers in maintaining machinery, equipment, and mine and quarry installations; (b) assembling and dismantling mining equipment; (c) removing tunnel supports from disused workings in mines and quarries; (d)	Examples of the occupations classified here: - Coal sampler - Mining labourer - Quarry labourer	Some related occupations classified elsewhere: - Driller (mining) - 8111 - Miner - 8111 - Mining plant operator - 8111 - Quarrier - 8111 - Driller (oil or gas well) - 8113 - Drilling plant operator - 8113
Civil engineering labourers	9312	Civil engineering labourers perform routine tasks in connection with the building and maintenance of roads, railways, dams and other civil engineering projects.	Tasks include - (a) digging and filling holes and trenches using hand held tools; (b) shovelling and spreading gravel and related materials; (c) trimming and cutting rocks and concrete and bitumen surfaces using jack-hammers; (d) loading and unloading	Examples of the occupations classified here: - Construction labourer (civil engineering) - Maintenance labourer (dams) - Earthmoving labourer	
Building construction labourers	9313	Building construction labourers perform routine tasks in connection with building construction and demolition work.	Tasks include - (a) cleaning used building bricks and doing other simple work on demolition sites; (b) mixing pouring and spreading materials such as concrete, plaster and mortar (c) digging and filling holes and trenches using hand held tools; (d) sp	Examples of the occupations classified here: - Bricklayer's assistant - Construction labourer (building work) - Demolition Labourer - Hod carrier Occupations in this minor group are classified into the following unit groups:	Some related occupations classified elsewhere: - Bricklayer - 7112 - House builder - 7111 - Building wrecker - 7119
Manufacturing labourers	932	Manufacturing labourers perform a variety of manual tasks in manufacturing, assist the work of machine operators and assemblers, and undertake product-sorting and hand-assembling of components.	packing material and various products by hand; filling bottles, boxes, bags and other containers with products by hand; labelling products and containers Tasks include - (a) weighing, wrapping, sealing and packing material and various products by hand; (b) filling bottles, cans, boxes, bags and other containers with products by hand; (a) conveying goods, material, equipment, etc. to work area, removing finished pieces; (b) loading and unloading vehicles, trucks and trolleys; (c) clearing machine blockages, cleaning machinery, equipment and tools;	Examples of the occupations classified here: - Hand packers - Manufacturing labourers not elsewhere classified Examples of the occupations classified here: - Labeller (hand) - Packer (hand) - Wrapper (hand) Examples of the occupations classified here: - Bottle sorter - Factory hand - Material handler - Stacker	
Hand packers	9321	Hand packers weigh, pack and label materials and products by hand.			Some related occupations classified elsewhere: - Labelling machine operator - 8183 - Packing machine operator - 8183
Manufacturing labourers not elsewhere classified	9329	Manufacturing labourers not elsewhere classified assist the work of machine operators and assemblers and perform a variety of manual tasks in manufacturing, excluding packing and labelling finished products.			Some related occupations classified elsewhere: - Assembler, electrical equipment - 8212 - Assembler, electronic equipment - 8212 - Assembler, leather products - 8219 - Assembler, rubber products -

Transport and storage labourers	933	Transport and storage labourers propel cycles and similar vehicles and drive animal-drawn vehicles to transport passengers or goods, drive animal-drawn machinery, handle freight and baggage and stock shelves	Tasks performed usually include: propelling cycles and similar vehicles to transport passengers or goods, driving animal-drawn vehicles to transport passengers or goods, driving animal-drawn machinery, carrying out freight handling by hand, and stocking shelves.	Occupations in this minor group are classified into the following unit groups: 9331 Hand and pedal vehicle drivers 9332 Drivers of animal-drawn vehicles and machinery 9333 Freight handlers 9334 Shelf fillers
Hand and pedal vehicle drivers	9331	Hand or pedal vehicle drivers propel cycles and similar vehicles to transport passengers or goods.	(a) loading or unloading goods, or assisting passengers in getting on or off a vehicle; (b) moving vehicle in the desired direction with due regard to other traffic and traffic regulations; (c) inspecting vehicle components to identify	Examples of the occupations classified here: - Driver, pedal vehicle - Driver, cycle rickshaw - Puller, rickshaw Some related occupations classified elsewhere: - Bicycle racer - 3421 - Motorcycle rider - 8321
Drivers of animal-drawn vehicles and machinery	9332	Drivers of animal-drawn vehicles and machinery drive animal-drawn vehicles to transport passengers or goods, as well as animal-drawn machinery usually in connection with farming.	Tasks include - (a) harnessing animals and hitching them to vehicles or machinery; (b) loading or unloading goods, or assisting passengers in getting on or off a vehicle; (c) driving animals in the desired direction with due regard to other traffic and	Examples of the occupations classified here: - Driver, animal-drawn vehicle - Driver, animal train - Mahout Some related occupations classified elsewhere: - Jockey - 3421
Freight handlers	9333	Freight handlers carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.	Tasks include - (a) packing office or household furniture, machines, appliances and related goods to be transported (b) from one place to another; (c) carrying goods to be loaded on or unloaded from vans, trucks, wagons, ships, or aircraft; (d) loadi	Examples of the occupations classified here: - Handler, freight Some related occupations classified elsewhere: - Operator, crane -8343 - Operator, truck/lifting - 8344
Shelf fillers	9334	Shelf fillers stock shelves and display areas and keep stock clean and in order in supermarkets and other retail and wholesale shops.	Tasks include - (a) placing goods neatly in bins and on racks, and stacking bulky goods on floors; (b) filling shelves with goods ensuring goods with the earliest use-by dates are at the front of shelves; (c) removing goods with past due use-by dates;	Examples of the occupations classified here: - Filler, stock - Handler, stock

Food preparation assistants	94	Food preparation assistants prepare and cook to order a small variety of pre-cooked food or beverages, clear tables, clean kitchen areas and wash dishes.	sub major group usually include: preparing simple or pre-prepared foods and beverages such as sandwiches, pizzas, fish and chips, salads, and coffee; washing, cutting, measuring and mixing foods for cooking; operating c	Occupations in this sub major group are classified into the following minor group:
Food preparation assistants	941	Food preparation assistants prepare and cook to order small variety of pre-cooked food or beverages, clear tables, clean kitchen areas and wash dishes.	tasks performed usually include: preparing simple or pre-prepared foods and beverages such as sandwiches, pizzas, fish and chips, salads, and coffee; washing, cutting, measuring and mixing foods for	941 Food preparation assistants Occupations in this minor group are classified into the following unit groups: 9411 Fast food preparers 9412 Kitchen helpers
Fast food preparers	9411	Fast food preparers prepare and cook to order a limited range of foods or beverages that involve simple preparation processes and a small number of ingredients. They may take orders from customers and serve at counters or tables.	Tasks include - (a) preparing simple or pre-prepared foods and beverages such as sandwiches, hamburgers, pizzas, fish and chips, salads, and coffee; (b) washing, cutting, measuring and mixing foods for cooking; (c) operating large-volume single-proce	Examples of the occupations classified here: - Fast-food cook - Short order Cook Some related occupations classified elsewhere: - Chef-3434 - Cook-5120 - Food service counter attendant - 5246
Kitchen helpers	9412	Kitchen helpers clear tables, clean kitchen areas, wash dishes, preparing ingredients and perform other duties to assist workers who prepare or serve food and beverages.	Tasks include - (a) cleaning kitchens, food preparation areas and service areas; (b) assisting cooks and chefs in preparation of food by washing, peeling, chopping, cutting up measuring and mixing ingredients, (c) assembling dishes for service. (d) various items for sale; loading and unloading items for sale and transporting them; obtaining the materials necessary to perform services; approaching people on the street to offer goods or services; cleaning and polishing	Examples of the occupations classified here: - Hand dish washer - Kitchen assistant - Kitchen hand - Kitchen porter - Kitchen steward - Pantry attendant Some related occupations classified elsewhere: - Cook - 5120 - Fast food preparer - 9411
Street and related sales and service workers	95	Street and related sales and service workers provide sell goods, excluding food for immediate consumptions, and provide a variety of services on streets and in other public places such as stations.	Tasks include: obtaining the materials necessary to perform services; approaching people on the street to offer services; cleaning and polishing shoes; cleaning and polishing	Occupations in this sub-major group are classified into the following minor groups: 951 Street and related service workers 952 Street vendors (excluding food)
Street and related service workers	951	Street and related service workers provide a variety of services on streets and in other public places, including cleaning shoes, washing car windows, running errands, looking after property, and providing other on-the-spot street services.	Tasks include: obtaining the materials necessary to perform services; approaching people on the street to offer services; cleaning and polishing shoes; cleaning and polishing car windows; running errands;	Occupations in this minor group are classified into the following unit groups: 9510 Street and related service workers

		Tasks include - (a) obtaining the materials necessary to perform services; (b) approaching people on the street to offer services; (c) cleaning and polishing shoes; (d) cleaning and polishing car windows; (e) running errands; (f) assisting drivers	Examples of the occupations classified here: - Errand boy - Shoe-polisher - Car window washer - Car guard - Leaflet distributor - Free newspaper distributor	Leaflet and newspaper deliverer 9621 Forecourt attendant - 5245	
Street and related service workers	9510	Street and related service workers provide a variety of services on streets and in other public places, including cleaning shoes, washing car windows, running errands, handing out leaflets, looking after property, and providing other on-the-spot street s			
Street vendors (excluding food)	952	Street vendors (excluding food) sell a usually limited range of goods (excluding food for immediate consumption) in streets and public places such as stations, cinemas or theatres.	Occupations in this minor group are classified into the following unit groups: 9520 Street vendors (excluding food)		
Street vendors (excluding food)	9520	Tasks include - (a) buying or receiving items for sale, or making simple items; (b) loading and unloading basket, tray, push-cart, bicycle, hand truck or other vehicle, to transport goods to the streets or public places such as stations or cinemas; (c) tasks include - collecting, loading and unloading garbage; sweeping streets, parks and other public places; chopping firewood; carrying water; beating dust out of carpets and performing other odd-job tasks.	Examples of the occupations classified here: - Hawker - Pedlar - Newspaper vendor Occupations in this sub-major group are classified into the following minor groups: 961 Refuse workers 962 Other elementary workers Occupations in this minor group are classified into the following unit groups: 9611 Garbage and recycling collectors 9612 Refuse sorters 9613 Sweepers and related labourers	Some related occupations classified elsewhere: Market salesperson - 5211 Street stall salesperson - 5211 Street food vendor - 5212 Free newspaper distributor - 9510	Vendors from street and market stalls of fresh food products not intended for immediate consumption (such as fruit, vegetables, meat and dairy products) are classified in unit group 5211 Stall and market salespersons. Vendors from street and market stalls
Refuse workers and other elementary workers	96	Refuse workers and other elementary workers collect garbage from buildings, yards, streets and other public places or keep streets and other public places or perform odd jobs for private households or establishments.			
Refuse workers	961	Refuse workers collect, process and recycle garbage from buildings, yards, streets and other public places, or keep streets and other public places clean.	Tasks usually include: collecting, loading and unloading garbage; sweeping streets, parks and other public places; sorting and recycling garbage such as paper, glass, plastic or aluminium. (a) collecting rubbish and recyclable materials and locating it into bins and garbage and recycling trucks; (b) riding on or in garbage and recycling trucks; (c) lifting garbage bins and emptying contents into trucks and larger conta		
Garbage and recycling collectors	9611	Garbage collectors collect and remove rubbish and items for recycling from buildings, yards, streets and other places.	Examples of the occupations classified here: - Collector, refuse - Dustman - Dustwoman	Some related occupations classified elsewhere: - Garbage truck driver- 8332	

Refuse sorters	9612	Refuse sorters identify, collect and sort discarded items suitable for recycling at dump sites and recycling enterprises or in buildings, streets and other public places.	(a) searching through refuse and collecting items for recycling from dump sites; domestic, commercial and industrial premises or from public places such as streets; (b) sorting cardboard, paper, glass, plastic, aluminium or other recyclable materials by (a) sweeping streets, parks, airports, stations and similar public places; (b) shovelling snow; (c) beating dust out of carpets by using a carpet-beater; (d) cleaning rubbish, leaves and snow from driveways and grounds.	Examples of the occupations classified here: Recycling worker Scrap merchant Waste picker	Some related occupations classified elsewhere: Refuse collector - 9611 Street sweeper - 9613
Sweepers and related labourers	9613	Sweepers and related labourers sweep and clean streets, parks, airports, stations and other public places.		Examples of the occupations classified here: - Sweeper, park - Sweeper, street Occupations in this minor group are classified into the following unit groups:	
Other elementary workers	962	Other elementary workers deliver and carry messages and packages, collect money and stock vending machines, read meters, collect water and firewood, collect and issue tickets for parking or events.	Tasks performed usually include-chopping wood, collecting water and firewood; delivering messages, packages and other items within or between establishments, or elsewhere; performing duties as a post-runner; issuing and collecting tickets and passes; c	9621 Messengers, package deliverers and luggage porters 9622 Odd job persons 9623 Meter readers and vending-machine collectors 9624 Water and firewood collectors 9629	
Messengers, package deliverers and luggage porters	9621	Messengers, package deliverers and luggage porters carry and deliver messages, packages and other items within an establishment or between establishments, to households and elsewhere, or carry luggage especially at hotels, stations and airports.	Tasks include - (a) delivering messages, packages and other items within an establishment or between establishments, or elsewhere; (b) performing the duties of a post-runner; (c) delivering various goods to and from enterprises, shops, households and	Examples of the occupations classified here: - Newspaper deliverer - Messenger - Luggage porter - Post-runner	Some related occupations classified elsewhere: - Mail carrier - 4412 - Postman/woman - 4412
Odd job persons	9622	Odd job persons clean, paint and maintain buildings, grounds and facilities, and undertake simple repairs.	Tasks include - (a) repairing broken windows, screens, doors, fences, barbecues, picnic tables, shelves, cupboards and other items; (b) replacing defective items such as light bulbs; (c) repairing and painting interior and exterior surfaces such as wall	Examples of the occupations classified here: - Odd-job person - Handyperson, - Hotel useful	

Meter readers and vending-machine collectors	9623	Meter readers and vending-machine collectors stock vending machines and collect money from them or from parking meters and other coin-boxes, or read electricity, gas or water meters.	Tasks include - (a) filling storage areas of vending machines and collecting money from their containers; (b) collecting money from parking meters and similar coin-boxes; (c) reading electricity, gas or water meters and recording consumption; (d) keep	Examples of the occupations classified here: - Vending machine collector - Meter reader
Water and firewood collectors	9624	Water and firewood collectors collect water and firewood and transport them on foot or using hand or animal carts.	Tasks include - (a) cutting and collecting wood from forests for sale in market or as fuel or for own consumption; (b) visiting forests or fields to pick pieces of dried wood from ground and arranging them in heaps; (c) cutting decayed branches and t	Examples of the occupations classified here: - Firewood collector - Water collector
Elementary workers not elsewhere classified	9629	This unit group covers elementary workers not classified elsewhere in major group 9, Elementary workers. For instance, the group includes those who issue and collect parking or admission tickets, provide personal items to patrons or customers in cloak	In such cases tasks would include - (a) selling and collecting admission tickets and passes from patrons at entertainment events or collecting tags from patrons; (b) examining tickets or passes to verify authenticity, using criteria such as colour and	Examples of the occupations classified here: - Usher - Parking attendant - Fairground attendant - Cloak room attendant - Ticket collectors Some related occupations classified elsewhere: - Parking valet - 8322