Resolution Concerning Updating the International Standard Classification of Occupations

The Tripartite Meeting of Experts on Labour Statistics on Updating the International Standard Classification of Occupations (ISCO),

Having been convened at Geneva by the Governing Body of the ILO and having met from 3 to 6 December 2007;

Recalling the Resolution of the Fourteenth International Conference of Labour Statisticians, made on 6 November 1987, endorsing the International Standard Classification of Occupations, 1988 (ISCO-88);

Recalling the request made by the Statistical Commission of the United Nations at its 34th session (March 2003) that the timetable for the revision of ISCO should meet the needs of the 2010 round of population and housing censuses; and

Concurring that, whilst the basic principles and main structure of ISCO-88 remain valid, significant modifications reflecting experience gained in many countries using ISCO-88-based classifications and new developments in the world of work, are necessary to allow ISCO to continue to be a useful model for the development of national classifications and a basis for international comparison and exchange of information classified by occupation;

Recalling the recommendation adopted by the Seventeenth International Conference of Labour Statisticians in 2003 for the meeting to evaluate the work of the ILO to update ISCO-88 and to make appropriate recommendations on the results to the Governing Body; and

Having examined the report to the Meeting describing the work of the International Labour Office on updating ISCO-88;

Adopts, this sixth day of December 2007, the following resolution

1. The occupational classification system of major, sub-major, minor and unit groups shown in the Annex to this resolution is endorsed by the Meeting of Experts in Labour Statistics and is designated the International Standard Classification of Occupations, 2008 (ISCO-08).

2. ISCO classifies jobs. A Job is defined for the purposes of ISCO-08 as a set of tasks and duties performed, or meant to be performed, by one person, including for an employer or in self employment.

3. An occupation is defined as a set of jobs whose main tasks and duties are characterised by a high degree of similarity. A person may be associated with an occupation through the main job currently held, a second job or a job previously held.

4. Jobs are classified by occupation with respect to the type of work performed, or to be performed. The basic criteria used to define the system of major, sub-major, minor and unit groups are the “skill level” and “skill specialization” required to competently perform the tasks and duties of the occupations.
5. In collecting and processing statistics classified by occupation (e.g. for use in fields such as labour market analysis, educational planning, human resource planning, occupational health and safety analysis, wages analysis, etc.), each country should endeavour to compile data that can be converted to the ISCO-08 system, to facilitate the international use and comparison of occupational information.

6. Countries should provide information to the ILO about how the groups defined in the classification (or classifications) of occupations used for national purposes can best be related to ISCO-08.

7. The Meeting of Experts notes that the ILO plans to:

(a) publish ISCO-08 including definitions of the major, sub-major, minor and unit groups and an index of occupations in English, French and Spanish;

(b) provide a manual and training material on how to adapt ISCO-08 for use in national and regional settings; and provide training on a regional basis through a series of regional workshops;

(c) ensure that, as the custodian of the *International Standard Classification of Occupations (ISCO-08)*, it will have the capacity to provide the technical advisory services that will be needed particularly by the developing countries to ensure that national occupational classifications can be developed or improved correspondingly and be used effectively and reliably.
Annex to the resolution:

ISCO-08 Structure, Group Titles and Codes

*Major Groups*

1. Managers
2. Professionals
3. Technicians and associate professionals
4. Clerical support workers
5. Service and sales workers
6. Skilled agricultural, forestry and fishery workers
7. Craft and related trades workers
8. Plant and machine operators, and assemblers
9. Elementary occupations
0. Armed forces occupations
Major groups and sub-major groups

1 Managers
   11 Chief executives, senior officials and legislators
   12 Administrative and commercial managers
   13 Production and specialized services managers
   14 Hospitality, retail and other services managers

2 Professionals
   21 Science and engineering professionals
   22 Health professionals
   23 Teaching professionals
   24 Business and administration professionals
   25 Information and communications technology professionals
   26 Legal, social and cultural professionals

3 Technicians and associate professionals
   31 Science and engineering associate professionals
   32 Health associate professionals
   33 Business and administration associate professionals
   34 Legal, social, cultural and related associate professionals
   35 Information and communications technicians

4 Clerical support workers
   41 General and keyboard clerks
   42 Customer services clerks
   43 Numerical and material recording clerks
   44 Other clerical support workers

5 Service and sales workers
   51 Personal service workers
   52 Sales workers
   53 Personal care workers
54 Protective services workers

6 Skilled agricultural, forestry and fishery workers
   61 Market-oriented skilled agricultural workers
   62 Market-oriented skilled forestry, fishing and hunting workers
   63 Subsistence farmers, fishers, hunters and gatherers

7 Craft and related trades workers
   71 Building and related trades workers, excluding electricians
   72 Metal, machinery and related trades workers
   73 Handicraft and printing workers
   74 Electrical and electronic trades workers
   75 Food processing, wood working, garment and other craft and related trades workers

8 Plant and machine operators, and assemblers
   81 Stationary plant and machine operators
   82 Assemblers
   83 Drivers and mobile plant operators

9 Elementary occupations
   91 Cleaners and helpers
   92 Agricultural, forestry and fishery labourers
   93 Labourers in mining, construction, manufacturing and transport
   94 Food preparation assistants
   95 Street and related sales and service workers
   96 Refuse workers and other elementary workers

0 Armed forces occupations
   01 Commissioned armed forces officers
   02 Non-commissioned armed forces officers
   03 Armed forces occupations, other ranks
Major groups, sub-major groups and minor groups

1 Managers
   11 Chief executives, senior officials and legislators
      111 Legislators and senior officials
      112 Managing directors and chief executives
   12 Administrative and commercial managers
      121 Business services and administration managers
      122 Sales, marketing and development managers
   13 Production and specialized services managers
      131 Production managers in agriculture, forestry and fisheries
      132 Manufacturing, mining, construction, and distribution managers
      133 Information and communications technology service managers
      134 Professional services managers
   14 Hospitality, retail and other services managers
      141 Hotel and restaurant managers
      142 Retail and wholesale trade managers
      143 Other services managers

2 Professionals
   21 Science and engineering professionals
      211 Physical and earth science professionals
      212 Mathematicians, actuaries and statisticians
      213 Life science professionals
      214 Engineering professionals (excluding electrotechnology)
      215 Electrotechnology engineers
      216 Architects, planners, surveyors and designers
   22 Health professionals
      221 Medical doctors
      222 Nursing and midwifery professionals
223  Traditional and complementary medicine professionals
224  Paramedical practitioners
225  Veterinarians
226  Other health professionals
23  Teaching professionals
231  University and higher education teachers
232  Vocational education teachers
233  Secondary education teachers
234  Primary school and early childhood teachers
235  Other teaching professionals
24  Business and administration professionals
241  Finance professionals
242  Administration professionals
243  Sales, marketing and public relations professionals
25  Information and communications technology professionals
251  Software and applications developers and analysts
252  Database and network professionals
26  Legal, social and cultural professionals
261  Legal professionals
262  Librarians, archivists and curators
263  Social and religious professionals
264  Authors, journalists and linguists
265  Creative and performing artists
3  Technicians and associate professionals
31  Science and engineering associate professionals
311  Physical and engineering science technicians
312  Mining, manufacturing and construction supervisors
313  Process control technicians
314  Life science technicians and related associate professionals
315 Ship and aircraft controllers and technicians

32 Health associate professionals
321 Medical and pharmaceutical technicians
322 Nursing and midwifery associate professionals
323 Traditional and complementary medicine associate professionals
324 Veterinary technicians and assistants
325 Other health associate professionals

33 Business and administration associate professionals
331 Financial and mathematical associate professionals
332 Sales and purchasing agents and brokers
333 Business services agents
334 Administrative and specialized secretaries
335 Regulatory government associate professionals

34 Legal, social, cultural and related associate professionals
341 Legal, social and religious associate professionals
342 Sports and fitness workers
343 Artistic, cultural and culinary associate professionals

35 Information and communications technicians
351 Information and communications technology operations and user support technicians
352 Telecommunications and broadcasting technicians

4 Clerical support workers
41 General and keyboard clerks
411 General office clerks
412 Secretaries (general)
413 Keyboard operators

42 Customer services clerks
421 Tellers, money collectors and related clerks
422 Client information workers
43 Numerical and material recording clerks
   431 Numerical clerks
   432 Material-recording and transport clerks

44 Other clerical support workers
   441 Other clerical support workers

5 Service and sales workers

51 Personal service workers
   511 Travel attendants, conductors and guides
   512 Cooks
   513 Waiters and bartenders
   514 Hairdressers, beauticians and related workers
   515 Building and housekeeping supervisors
   516 Other personal services workers

52 Sales workers
   521 Street and market salespersons
   522 Shop salespersons
   523 Cashiers and ticket clerks
   524 Other sales workers

53 Personal care workers
   531 Child care workers and teachers' aides
   532 Personal care workers in health services

54 Protective services workers
   541 Protective services workers

6 Skilled agricultural, forestry and fishery workers

61 Market-oriented skilled agricultural workers
   611 Market gardeners and crop growers
   612 Animal producers
   613 Mixed crop and animal producers
62 Market-oriented skilled forestry, fishery and hunting workers
   621 Forestry and related workers
   622 Fishery workers, hunters and trappers

63 Subsistence farmers, fishers, hunters and gatherers
   631 Subsistence crop farmers
   632 Subsistence livestock farmers
   633 Subsistence mixed crop and livestock farmers
   634 Subsistence fishers, hunters, trappers and gatherers

7 Craft and related trades workers
   71 Building and related trades workers, excluding electricians
      711 Building frame and related trades workers
      712 Building finishers and related trades workers
      713 Painters, building structure cleaners and related trades workers

   72 Metal, machinery and related trades workers
      721 Sheet and structural metal workers, moulders and welders, and related workers
      722 Blacksmiths, toolmakers and related trades workers
      723 Machinery mechanics and repairers

   73 Handicraft and printing workers
      731 Handicraft workers
      732 Printing trades workers

   74 Electrical and electronic trades workers
      741 Electrical equipment installers and repairers
      742 Electronics and telecommunications installers and repairers

   75 Food processing, wood working, garment and other craft and related trades workers
      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 related workers
8 Plant and machine operators, and assemblers
   81 Stationary plant and machine operators
      811 Mining and mineral processing plant operators
      812 Metal processing and finishing plant operators
      813 Chemical and photographic products plant and machine operators
      814 Rubber, plastic and paper products machine operators
      815 Textile, fur and leather products machine operators
      816 Food and related products machine operators
      817 Wood processing and papermaking plant operators
      818 Other stationary plant and machine operators
   82 Assemblers
      821 Assemblers
   83 Drivers and mobile plant operators
      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 related workers

9 Elementary occupations
   91 Cleaners and helpers
      911 Domestic, hotel and office cleaners and helpers
      912 Vehicle, window, laundry and other hand cleaning workers
   92 Agricultural, forestry and fishery labourers
      921 Agricultural, forestry and fishery labourers
   93 Labourers in mining, construction, manufacturing and transport
      931 Mining and construction labourers
      932 Manufacturing labourers
      933 Transport and storage labourers
<table>
<thead>
<tr>
<th>Code</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Food preparation assistants</td>
</tr>
<tr>
<td>941</td>
<td>Food preparation assistants</td>
</tr>
<tr>
<td>95</td>
<td>Street and related sales and service workers</td>
</tr>
<tr>
<td>951</td>
<td>Street and related service workers</td>
</tr>
<tr>
<td>952</td>
<td>Street vendors (excluding food)</td>
</tr>
<tr>
<td>96</td>
<td>Refuse workers and other elementary workers</td>
</tr>
<tr>
<td>961</td>
<td>Refuse workers</td>
</tr>
<tr>
<td>962</td>
<td>Other elementary workers</td>
</tr>
<tr>
<td>0</td>
<td>Armed forces occupations</td>
</tr>
<tr>
<td>01</td>
<td>Commissioned armed forces officers</td>
</tr>
<tr>
<td>011</td>
<td>Commissioned armed forces officers</td>
</tr>
<tr>
<td>02</td>
<td>Non-commissioned armed forces officers</td>
</tr>
<tr>
<td>021</td>
<td>Non-commissioned armed forces officers</td>
</tr>
<tr>
<td>03</td>
<td>Armed forces occupations, other ranks</td>
</tr>
<tr>
<td>031</td>
<td>Armed forces occupations, other ranks</td>
</tr>
</tbody>
</table>
Major groups, sub-major groups, minor groups and unit groups

1 Managers

11 Chief executives, senior officials and legislators

111 Legislators and senior officials

1111 Legislators

1112 Senior government officials

1113 Traditional chiefs and heads of village

1114 Senior officials of special-interest organizations

112 Managing directors and chief executives

1120 Managing directors and chief executives

12 Administrative and commercial managers

121 Business services and administration managers

1211 Finance managers

1212 Human resource managers

1213 Policy and planning managers

1219 Business services and administration managers not elsewhere classified

122 Sales, marketing and development managers

1221 Sales and marketing managers

1222 Advertising and public relations managers

1223 Research and development managers

13 Production and specialized services managers

131 Production managers in agriculture, forestry and fisheries

1311 Agricultural and forestry production managers

1312 Aquaculture and fisheries production managers

132 Manufacturing, mining, construction, and distribution managers

1321 Manufacturing managers

1322 Mining managers

1323 Construction managers
1324  Supply, distribution and related managers
133  Information and communications technology service managers
   1330  Information and communications technology service managers
134  Professional services managers
   1341  Child care services managers
   1342  Health services managers
   1343  Aged care services managers
   1344  Social welfare managers
   1345  Education managers
   1346  Financial and insurance services branch managers
   1349  Professional services managers not elsewhere classified
14  Hospitality, retail and other services managers
   141  Hotel and restaurant managers
      1411  Hotel managers
      1412  Restaurant managers
   142  Retail and wholesale trade managers
      1420  Retail and wholesale trade managers
   143  Other services managers
      1431  Sports, recreation and cultural centre managers
      1439  Services managers not elsewhere classified
2  Professionals
   21  Science and engineering professionals
      211  Physical and earth science professionals
         2111  Physicists and astronomers
         2112  Meteorologists
         2113  Chemists
         2114  Geologists and geophysicists
      212  Mathematicians, actuaries and statisticians
         2120  Mathematicians, actuaries and statisticians
213 Life science professionals
   2131 Biologists, botanists, zoologists and related professionals
   2132 Farming, forestry and fisheries advisers
   2133 Environmental protection professionals

214 Engineering professionals (excluding electrotechnology)
   2141 Industrial and production engineers
   2142 Civil engineers
   2143 Environmental engineers
   2144 Mechanical engineers
   2145 Chemical engineers
   2146 Mining engineers, metallurgists and related professionals
   2149 Engineering professionals not elsewhere classified

215 Electrotechnology engineers
   2151 Electrical engineers
   2152 Electronics engineers
   2153 Telecommunications engineers

216 Architects, planners, surveyors and designers
   2161 Building architects
   2162 Landscape architects
   2163 Product and garment designers
   2164 Town and traffic planners
   2165 Cartographers and surveyors
   2166 Graphic and multimedia designers

22 Health professionals
   221 Medical doctors
      2211 Generalist medical practitioners
      2212 Specialist medical practitioners
   222 Nursing and midwifery professionals
      2221 Nursing professionals
222 Midwifery professionals

223 Traditional and complementary medicine professionals
   2230 Traditional and complementary medicine professionals

224 Paramedical practitioners
   2240 Paramedical practitioners

225 Veterinarians
   2250 Veterinarians

226 Other health professionals
   2261 Dentists
   2262 Pharmacists
   2263 Environmental and occupational health and hygiene professionals
   2264 Physiotherapists
   2265 Dieticians and nutritionists
   2266 Audiologists and speech therapists
   2267 Optometrists and ophthalmic opticians
   2269 Health professionals not elsewhere classified

23 Teaching professionals
   231 University and higher education teachers
      2310 University and higher education teachers
   232 Vocational education teachers
      2320 Vocational education teachers
   233 Secondary education teachers
      2330 Secondary education teachers
   234 Primary school and early childhood teachers
      2341 Primary school teachers
      2342 Early childhood educators
   235 Other teaching professionals
      2351 Education methods specialists
      2352 Special needs teachers
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2353</td>
<td>Other language teachers</td>
</tr>
<tr>
<td>2354</td>
<td>Other music teachers</td>
</tr>
<tr>
<td>2355</td>
<td>Other arts teachers</td>
</tr>
<tr>
<td>2356</td>
<td>Information technology trainers</td>
</tr>
<tr>
<td>2359</td>
<td>Teaching professionals not elsewhere classified</td>
</tr>
<tr>
<td>24</td>
<td>Business and administration professionals</td>
</tr>
<tr>
<td>241</td>
<td>Finance professionals</td>
</tr>
<tr>
<td>2411</td>
<td>Accountants</td>
</tr>
<tr>
<td>2412</td>
<td>Financial and investment advisers</td>
</tr>
<tr>
<td>2413</td>
<td>Financial analysts</td>
</tr>
<tr>
<td>242</td>
<td>Administration professionals</td>
</tr>
<tr>
<td>2421</td>
<td>Management and organization analysts</td>
</tr>
<tr>
<td>2422</td>
<td>Policy administration professionals</td>
</tr>
<tr>
<td>2423</td>
<td>Personnel and careers professionals</td>
</tr>
<tr>
<td>2424</td>
<td>Training and staff development professionals</td>
</tr>
<tr>
<td>243</td>
<td>Sales, marketing and public relations professionals</td>
</tr>
<tr>
<td>2431</td>
<td>Advertising and marketing professionals</td>
</tr>
<tr>
<td>2432</td>
<td>Public relations professionals</td>
</tr>
<tr>
<td>2433</td>
<td>Technical and medical sales professionals (excluding ICT)</td>
</tr>
<tr>
<td>2434</td>
<td>Information and communications technology sales professionals</td>
</tr>
<tr>
<td>25</td>
<td>Information and communications technology professionals</td>
</tr>
<tr>
<td>251</td>
<td>Software and applications developers and analysts</td>
</tr>
<tr>
<td>2511</td>
<td>Systems analysts</td>
</tr>
<tr>
<td>2512</td>
<td>Software developers</td>
</tr>
<tr>
<td>2513</td>
<td>Web and multimedia developers</td>
</tr>
<tr>
<td>2514</td>
<td>Applications programmers</td>
</tr>
<tr>
<td>2519</td>
<td>Software and applications developers and analysts not elsewhere classified</td>
</tr>
<tr>
<td>252</td>
<td>Database and network professionals</td>
</tr>
<tr>
<td>2521</td>
<td>Database designers and administrators</td>
</tr>
</tbody>
</table>
2522 Systems administrators
2523 Computer network professionals
2529 Database and network professionals not elsewhere classified

26 Legal, social and cultural professionals
261 Legal professionals
2611 Lawyers
2612 Judges
2619 Legal professionals not elsewhere classified
262 Librarians, archivists and curators
2621 Archivists and curators
2622 Librarians and related information professionals
263 Social and religious professionals
2631 Economists
2632 Sociologists, anthropologists and related professionals
2633 Philosophers, historians and political scientists
2634 Psychologists
2635 Social work and counselling professionals
2636 Religious professionals
264 Authors, journalists and linguists
2641 Authors and related writers
2642 Journalists
2643 Translators, interpreters and other linguists
265 Creative and performing artists
2651 Visual artists
2652 Musicians, singers and composers
2653 Dancers and choreographers
2654 Film, stage and related directors and producers
2655 Actors
2656 Announcers on radio, television and other media
2659  Creative and performing artists not elsewhere classified

3  Technicians and associate professionals

31  Science and engineering associate professionals

311  Physical and engineering science technicians

3111  Chemical and physical science technicians

3112  Civil engineering technicians

3113  Electrical engineering technicians

3114  Electronics engineering technicians

3115  Mechanical engineering technicians

3116  Chemical engineering technicians

3117  Mining and metallurgical technicians

3118  Draughtspersons

3119  Physical and engineering science technicians not elsewhere classified

312  Mining, manufacturing and construction supervisors

3121  Mining supervisors

3122  Manufacturing supervisors

3123  Construction supervisors

313  Process control technicians

3131  Power production plant operators

3132  Incinerator and water treatment plant operators

3133  Chemical processing plant controllers

3134  Petroleum and natural gas refining plant operators

3135  Metal production process controllers

3139  Process control technicians not elsewhere classified

314  Life science technicians and related associate professionals

3141  Life science technicians (excluding medical)

3142  Agricultural technicians

3143  Forestry technicians
315  Ship and aircraft controllers and technicians
    3151  Ships’ engineers
    3152  Ships’ deck officers and pilots
    3153  Aircraft pilots and related associate professionals
    3154  Air traffic controllers
    3155  Air traffic safety electronics technicians

32  Health associate professionals
    321  Medical and pharmaceutical technicians
        3211  Medical imaging and therapeutic equipment technicians
        3212  Medical and pathology laboratory technicians
        3213  Pharmaceutical technicians and assistants
        3214  Medical and dental prosthetic technicians
    322  Nursing and midwifery associate professionals
        3221  Nursing associate professionals
        3222  Midwifery associate professionals
    323  Traditional and complementary medicine associate professionals
        3230  Traditional and complementary medicine associate professionals
    324  Veterinary technicians and assistants
        3240  Veterinary technicians and assistants
    325  Other health associate professionals
        3251  Dental assistants and therapists
        3252  Medical records and health information technicians
        3253  Community health workers
        3254  Dispensing opticians
        3255  Physiotherapy technicians and assistants
        3256  Medical assistants
        3257  Environmental and occupational health inspectors and associates
        3258  Ambulance workers
        3259  Health associate professionals not elsewhere classified
33 Business and administration associate professionals

331 Financial and mathematical associate professionals
   3311 Securities and finance dealers and brokers
   3312 Credit and loans officers
   3313 Accounting associate professionals
   3314 Statistical, mathematical and related associate professionals
   3315 Valuers and loss assessors

332 Sales and purchasing agents and brokers
   3321 Insurance representatives
   3322 Commercial sales representatives
   3323 Buyers
   3324 Trade brokers

333 Business services agents
   3331 Clearing and forwarding agents
   3332 Conference and event planners
   3333 Employment agents and contractors
   3334 Real estate agents and property managers
   3339 Business services agents not elsewhere classified

334 Administrative and specialized secretaries
   3341 Office supervisors
   3342 Legal secretaries
   3343 Administrative and executive secretaries
   3344 Medical secretaries

335 Regulatory government associate professionals
   3351 Customs and border inspectors
   3352 Government tax and excise officials
   3353 Government social benefits officials
   3354 Government licensing officials
   3355 Police inspectors and detectives
3359  Regulatory government associate professionals not elsewhere classified

34  Legal, social, cultural and related associate professionals

341  Legal, social and religious associate professionals

3411  Legal and related associate professionals

3412  Social work associate professionals

3413  Religious associate professionals

342  Sports and fitness workers

3421  Athletes and sports players

3422  Sports coaches, instructors and officials

3423  Fitness and recreation instructors and program leaders

343  Artistic, cultural and culinary associate professionals

3431  Photographers

3432  Interior designers and decorators

3433  Gallery, museum and library technicians

3434  Chefs

3435  Other artistic and cultural associate professionals

35  Information and communications technicians

351  Information and communications technology operations and user support technicians

3511  Information and communications technology operations technicians

3512  Information and communications technology user support technicians

3513  Computer network and systems technicians

3514  Web technicians

352  Telecommunications and broadcasting technicians

3521  Broadcasting and audio-visual technicians

3522  Telecommunications engineering technicians
4 Clerical support workers

41 General and keyboard clerks

411 General office clerks

4110 General office clerks

412 Secretaries (general)

4120 Secretaries (general)

413 Keyboard operators

4131 Typists and word processing operators

4132 Data entry clerks

42 Customer services clerks

421 Tellers, money collectors and related clerks

4211 Bank tellers and related clerks

4212 Bookmakers, croupiers and related gaming workers

4213 Pawnbrokers and money-lenders

4214 Debt-collectors and related workers

422 Client information workers

4221 Travel consultants and clerks

4222 Contact centre information clerks

4223 Telephone switchboard operators

4224 Hotel receptionists

4225 Enquiry clerks

4226 Receptionists (general)

4227 Survey and market research interviewers

4229 Client information workers not elsewhere classified

43 Numerical and material recording clerks

431 Numerical clerks

4311 Accounting and bookkeeping clerks

4312 Statistical, finance and insurance clerks

4313 Payroll clerks
432  Material-recording and transport clerks
  4321  Stock clerks
  4322  Production clerks
  4323  Transport clerks

44  Other clerical support workers
  441  Other clerical support workers
    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
    4416  Personnel clerks
    4419  Clerical support workers not elsewhere classified

5  Service and sales workers
  51  Personal service workers
    511  Travel attendants, conductors and guides
      5111  Travel attendants and travel stewards
      5112  Transport conductors
      5113  Travel guides
    512  Cooks
      5120  Cooks
    513  Waiters and bartenders
      5131  Waiters
      5132  Bartenders
    514  Hairdressers, beauticians and related workers
      5141  Hairdressers
      5142  Beauticians and related workers
    515  Building and housekeeping supervisors
      5151  Cleaning and housekeeping supervisors in offices, hotels and other establishments
5152 Domestic housekeepers
5153 Building caretakers

516 Other personal services workers
5161 Astrologers, fortune-tellers and related workers
5162 Companions and valets
5163 Undertakers and embalmers
5164 Pet groomers and animal care workers
5165 Driving instructors
5169 Personal services workers not elsewhere classified

52 Sales workers
521 Street and market salespersons
5211 Stall and market salespersons
5212 Street food salespersons

522 Shop salespersons
5221 Shop keepers
5222 Shop supervisors
5223 Shop sales assistants

523 Cashiers and ticket clerks
5230 Cashiers and ticket clerks

524 Other sales workers
5241 Fashion and other models
5242 Sales demonstrators
5243 Door to door salespersons
5244 Contact centre salespersons
5245 Service station attendants
   5246 Food service counter attendants
5249 Sales workers not elsewhere classified
53  Personal care workers
   531  Child care workers and teachers' aides
      5311  Child care workers
      5312  Teachers' aides
   532  Personal care workers in health services
      5321  Health care assistants
      5322  Home-based personal care workers
      5329  Personal care workers in health services not elsewhere classified

54  Protective services workers
   541  Protective services workers
      5411  Fire-fighters
      5412  Police officers
      5413  Prison guards
      5414  Security guards
      5419  Protective services workers not elsewhere classified

6  Skilled agricultural, forestry and fishery workers
  61  Market-oriented skilled agricultural workers
   611  Market gardeners and crop growers
      6111  Field crop and vegetable growers
      6112  Tree and shrub crop growers
      6113  Gardeners, horticultural and nursery growers
      6114  Mixed crop growers
   612  Animal producers
      6121  Livestock and dairy producers
      6122  Poultry producers
      6123  Apiarists and sericulturists
      6129  Animal producers not elsewhere classified
   613  Mixed crop and animal producers
      6130  Mixed crop and animal producers
62 Market-oriented skilled forestry, fishery and hunting workers
   621 Forestry and related workers
      6210 Forestry and related workers
   622 Fishery workers, hunters and trappers
      6221 Aquaculture workers
      6222 Inland and coastal waters fishery workers
      6223 Deep-sea fishery workers
      6224 Hunters and trappers
63 Subsistence farmers, fishers, hunters and gatherers
   631 Subsistence crop farmers
      6310 Subsistence crop farmers
   632 Subsistence livestock farmers
      6320 Subsistence livestock farmers
   633 Subsistence mixed crop and livestock farmers
      6330 Subsistence mixed crop and livestock farmers
   634 Subsistence fishers, hunters, trappers and gatherers
      6340 Subsistence fishers, hunters, trappers and gatherers
7 Craft and related trades workers
   71 Building and related trades workers, excluding electricians
      711 Building frame and related trades workers
         7111 House builders
         7112 Bricklayers and related workers
         7113 Stonemasons, stone cutters, splitters and carvers
         7114 Concrete placers, concrete finishers and related workers
         7115 Carpenters and joiners
         7119 Building frame and related trades workers not elsewhere classified
      712 Building finishers and related trades workers
         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 mechanics

713 Painters, building structure cleaners and related trades workers
7131 Painters and related workers
7132 Spray painters and varnishers
7133 Building structure cleaners

72 Metal, machinery and related trades workers
721 Sheet and structural metal workers, moulders and welders, and related workers
7211 Metal moulders and coremakers
7212 Welders and flamecutters
7213 Sheet-metal workers
7214 Structural-metal preparers and erectors
7215 Riggers and cable splicers

722 Blacksmiths, toolmakers and related trades workers
7221 Blacksmiths, hammersmiths and forging press workers
7222 Toolmakers and related workers
7223 Metal working machine tool setters and operators
7224 Metal polishers, wheel grinders and tool sharpeners

723 Machinery mechanics and repairers
7231 Motor vehicle mechanics and repairers
7232 Aircraft engine mechanics and repairers
7233 Agricultural and industrial machinery mechanics and repairers
7234 Bicycle and related repairers

73 Handicraft and printing workers
731 Handicraft workers
7311 Precision-instrument makers and repairers
7312 Musical instrument makers and tuners
7313 Jewellery and precious-metal workers
7314 Potters and related workers
7315 Glass makers, cutters, grinders and finishers
7316 Sign writers, decorative painters, engravers and etchers
7317 Handicraft workers in wood, basketry and related materials
7318 Handicraft workers in textile, leather and related materials
7319 Handicraft workers not elsewhere classified

732 Printing trades workers
7321 Pre-press technicians
7322 Printers
7323 Print finishing and binding workers

74 Electrical and electronic trades workers
741 Electrical equipment installers and repairers
7411 Building and related electricians
7412 Electrical mechanics and fitters
7413 Electrical line installers and repairers
742 Electronics and telecommunications installers and repairers
7421 Electronics mechanics and servicers
7422 Information and communications technology installers and servicers

75 Food processing, wood working, garment and other craft and related trades workers
751 Food processing and related trades workers
7511 Butchers, fishmongers and related food preparers
7512 Bakers, pastry-cooks and confectionery makers
7513 Dairy-products makers
7514 Fruit, vegetable and related preservers
7515 Food and beverage tasters and graders
7516 Tobacco preparers and tobacco products makers
752 Wood treaters, cabinet-makers and related trades workers
   7521 Wood treaters
   7522 Cabinet-makers and related workers
   7523 Woodworking-machine tool setters and operators
753 Garment and related trades workers
   7531 Tailors, dressmakers, furriers and hatters
   7532 Garment and related pattern-makers and cutters
   7533 Sewing, embroidery and related workers
   7534 Upholsterers and related workers
   7535 Pelt dressers, tanners and fellmongers
   7536 Shoemakers and related workers
754 Other craft and related workers
   7541 Underwater divers
   7542 Shotfirers and blasters
   7543 Product graders and testers (excluding foods and beverages)
   7544 Fumigators and other pest and weed controllers
   7549 Craft and related workers not elsewhere classified
8 Plant and machine operators, and assemblers
81 Stationary plant and machine operators
   811 Mining and mineral processing plant operators
      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 products machine operators
   812 Metal processing and finishing plant operators
      8121 Metal processing plant operators
      8122 Metal finishing, plating and coating machine operators
   813 Chemical and photographic products plant and machine operators
      8131 Chemical products plant and machine operators
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8132</td>
<td>Photographic products machine operators</td>
</tr>
<tr>
<td>814</td>
<td>Rubber, plastic and paper products machine operators</td>
</tr>
<tr>
<td>8141</td>
<td>Rubber products machine operators</td>
</tr>
<tr>
<td>8142</td>
<td>Plastic products machine operators</td>
</tr>
<tr>
<td>8143</td>
<td>Paper products machine operators</td>
</tr>
<tr>
<td>815</td>
<td>Textile, fur and leather products machine operators</td>
</tr>
<tr>
<td>8151</td>
<td>Fibre preparing, spinning and winding machine operators</td>
</tr>
<tr>
<td>8152</td>
<td>Weaving and knitting machine operators</td>
</tr>
<tr>
<td>8153</td>
<td>Sewing machine operators</td>
</tr>
<tr>
<td>8154</td>
<td>Bleaching, dyeing and fabric cleaning machine operators</td>
</tr>
<tr>
<td>8155</td>
<td>Fur and leather preparing machine operators</td>
</tr>
<tr>
<td>8156</td>
<td>Shoemaking and related machine operators</td>
</tr>
<tr>
<td>8157</td>
<td>Laundry machine operators</td>
</tr>
<tr>
<td>8159</td>
<td>Textile, fur and leather products machine operators not elsewhere classified</td>
</tr>
<tr>
<td>816</td>
<td>Food and related products machine operators</td>
</tr>
<tr>
<td>8160</td>
<td>Food and related products machine operators</td>
</tr>
<tr>
<td>817</td>
<td>Wood processing and papermaking plant operators</td>
</tr>
<tr>
<td>8171</td>
<td>Pulp and papermaking plant operators</td>
</tr>
<tr>
<td>8172</td>
<td>Wood processing plant operators</td>
</tr>
<tr>
<td>818</td>
<td>Other stationary plant and machine operators</td>
</tr>
<tr>
<td>8181</td>
<td>Glass and ceramics plant operators</td>
</tr>
<tr>
<td>8182</td>
<td>Steam engine and boiler operators</td>
</tr>
<tr>
<td>8183</td>
<td>Packing, bottling and labelling machine operators</td>
</tr>
<tr>
<td>8189</td>
<td>Stationary plant and machine operators not elsewhere classified</td>
</tr>
<tr>
<td>82</td>
<td>Assemblers</td>
</tr>
<tr>
<td>821</td>
<td>Assemblers</td>
</tr>
<tr>
<td>8211</td>
<td>Mechanical machinery assemblers</td>
</tr>
<tr>
<td>8212</td>
<td>Electrical and electronic equipment assemblers</td>
</tr>
<tr>
<td>8219</td>
<td>Assemblers not elsewhere classified</td>
</tr>
</tbody>
</table>
83  Drivers and mobile plant operators

831  Locomotive engine drivers and related workers

8311  Locomotive engine drivers
8312  Railway brake, signal and switch operators
832  Car, van and motorcycle drivers
8321  Motorcycle drivers
8322  Car, taxi and van drivers

833  Heavy truck and bus drivers

8331  Bus and tram drivers
8332  Heavy truck and lorry drivers

834  Mobile plant operators

8341  Mobile farm and forestry plant operators
8342  Earthmoving and related plant operators
8343  Crane, hoist and related plant operators
8344  Lifting truck operators

835  Ships' deck crews and related workers

8350  Ships' deck crews and related workers

9  Elementary occupations

91  Cleaners and helpers

911  Domestic, hotel and office cleaners and helpers

9111  Domestic cleaners and helpers
9112  Cleaners and helpers in offices, hotels and other establishments

912  Vehicle, window, laundry and other hand cleaning workers

9121  Hand launderers and pressers
9122  Vehicle cleaners
9123  Window cleaners
9129  Other cleaning workers
92 Agricultural, forestry and fishery labourers
  921 Agricultural, forestry and fishery labourers
    9211 Crop farm labourers
    9212 Livestock farm labourers
    9213 Mixed crop and livestock farm labourers
    9214 Garden and horticultural labourers
    9215 Forestry labourers
    9216 Fishery and aquaculture labourers

93 Labourers in mining, construction, manufacturing and transport
  931 Mining and construction labourers
    9311 Mining and quarrying labourers
    9312 Civil engineering labourers
    9313 Building construction labourers
  932 Manufacturing labourers
    9321 Hand packers
    9329 Manufacturing labourers not elsewhere classified
  933 Transport and storage labourers
    9331 Hand and pedal vehicle drivers
    9332 Drivers of animal-drawn vehicles and machinery
    9333 Freight handlers
    9334 Shelf fillers

94 Food preparation assistants
  941 Food preparation assistants
    9411 Fast food preparers
    9412 Kitchen helpers

95 Street and related sales and service workers
  951 Street and related service workers
    9510 Street and related service workers
952   Street vendors (excluding food)
    9520  Street vendors (excluding food)

96   Refuse workers and other elementary workers
  961   Refuse workers
    9611  Garbage and recycling collectors
    9612  Refuse sorters
    9613  Sweepers and related labourers

  962   Other elementary workers
    9621  Messengers, package deliverers and luggage porters
    9622  Odd job persons
    9623  Meter readers and vending-machine collectors
    9624  Water and firewood collectors
    9629  Elementary workers not elsewhere classified

  0   Armed forces occupations
    01   Commissioned armed forces officers
      011  Commissioned armed forces officers
        0110  Commissioned armed forces officers

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

    03   Armed forces occupations, other ranks
      031  Armed forces occupations, other ranks
        0310  Armed forces occupations, other ranks