

INTERNATIONAL LABOUR ORGANIZATION

Report of

Meeting of Experts on Labour Statistics
Geneva, 3 – 6 December 2007

**Updating the International Standard Classification of Occupations
(ISCO)**

Geneva, 2008



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1 Opening of the meeting

1.1 Background

1. The Meeting of Experts on Labour Statistics on updating the *International Standard Classification of Occupations (ISCO)* was convened from 3–6 December 2007 by the Governing Body of the International Labour Office (ILO) in accordance with a resolution, in 2003, of the 17th *International Conference of Labour Statisticians (ICLS)*. In this resolution, endorsed by the Governing Body in March 2004, the ILO was requested to update ISCO by late 2007 and convene a tripartite Meeting of Experts to adopt the classification and make appropriate recommendations to the Governing Body. The timing was required to allow sufficient time for the updated classification, or national adaptations of it, to be available for use in the 2010 round of national population censuses.
2. The original request that the ILO timetable for the revision of ISCO should meet the needs of the next Census round was made at the 34th session of the *UN Statistical Commission* in March 2003. At the 35th session of the Commission, held in March 2004, the ILO made a commitment to complete the work by 2007, with the expectation that the updated classification would be presented to the Commission at its meeting in March 2008.
3. Participating in the meeting of experts at the invitation of the Governing Body were experts from 16 governments (Australia, Barbados, Botswana, Canada, Peoples Republic of China, Colombia, France, Jordan, Republic of Korea, Russian Federation, Sweden, Tanzania, Tunisia, United Kingdom, United States and Uruguay), as well as six experts nominated after consultation with the employers group and three experts nominated after consultation with the workers group of the Governing Body. Present at the meeting as observers were representatives from Brazil and Spain, as well representatives from the United Nations (UNECA), specialized agencies (FAO and WHO), non-governmental international organizations (IOE) and Eurostat. A list of participants is attached to this report.
4. The deliberations at the meeting were based on a report¹ prepared by the ILO in its working languages English, French and Spanish. In addition to a review of the background to the meeting, the report presented reasons for the proposed modifications to the structure of ISCO, as well as a draft resolution for the meeting and the proposal for a new structure for ISCO. The ILO secretariat also made available to the meeting supporting documents that presented draft definitional descriptions for the intended content of some of the proposed groups. These supporting documents were available in English only.

1.2 Opening remarks and election of officers

5. In his opening address the director of the ILO Bureau of Statistics, Mr. A. Sylvester Young, stressed the historic nature of the meeting in that the 17th ICLS had entrusted it with the task of considering a proposal for an updated and revised version of ISCO, and making a recommendation directly to the Governing Body on the outcome of its discussion. All previous reports to the Governing Body concerning new or revised international standards for labour statistics had been reports of the ICLS itself, following preparatory meetings of experts in labour statistics. Mr. Young also stressed that the participants were asked to serve as experts and not as representatives of their governments or any particular group or institution: it would be important to arrive at an instrument that would reflect best practices and not necessarily the ones used in countries. He also used the opportunity to thank all those governments, institutions and individuals who had assisted the ILO in the work leading up to the proposals that would be considered by the meeting of experts.

¹ ILO: *Report: Meeting of Experts on Labour Statistics: Updating the International Standard Classification of Occupations (ISCO)*. ILO, Geneva, 2007

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6. Mr. Derek Bird (United Kingdom) was elected to chair the meeting, and Ms. Dixie Sommers (United States) was elected as rapporteur. Participants were invited to serve on a drafting committee that would assist the rapporteur to ensure completeness and consistency in terminology between the English, French and Spanish versions of the Resolution of the meeting. The experts from Canada, France, Spain, Sweden and Uruguay were accepted to serve as members of this committee. They were joined by one expert nominated by the employers and one expert nominated by the workers.
 7. The meeting adopted the provisional agenda that had been proposed by the ILO Secretariat.

2. Background and overview of the work undertaken

8. In presenting the above background for the meeting, the representative of the Director General stressed the wide range of applications for national occupational classifications, for example as instruments for presenting statistics on the occupational structure and changes in the labour force of countries as well as their social structures, for matching job seekers and vacancies, and for regulating the international migration of workers. He reminded the meeting that the 17th ICLS had “concluded that the basic principles and main structure of ISCO-88 should not be changed” through the process of modifying and updating ISCO-88 “to ensure that it can serve as a good model for national occupational classifications”. He outlined briefly the work that had been done to arrive at the proposals presented to the meeting and the nature of the modifications presented for consideration. He also outlined the work that would be undertaken by the ILO following the meeting of experts: in particular the preparation of descriptive definitions for all groups and the preparation of an index to the classification in all three languages would be important to clarify the content of all groups and the borderlines between them.
9. The importance of the work on definitions was stressed by some of the experts, as was the need for frequent updates to the classification within its revised structure. The need to have a classification that would accommodate and reflect jobs that are typical for the informal economy was underlined.

3. Conceptual framework for the updated ISCO

10. In introducing this agenda item, the representative of the Director General explained that the main elements of the conceptual framework that had been adopted for ISCO-88 had been retained with minor modifications and elaborations to serve as a basis for the updating. The most significant change was that more emphasis had been placed on the nature of the work performed than on the formal educational qualifications required in applying the concept of skill level to the design of the classification. There was a consensus among these experts that this approach was useful.

4. Overview of changes proposed for ISCO-08

11. When presenting the overview of the changes that were being proposed for ISCO, the representative of the Director General stressed the need for ISCO to reflect better the results of the rapid changes in the world of work related to the widespread use of information and communication technology, and that certain skill specializations were no longer as important in the world of work as they had been in the past. He also stressed the need to improve the classification’s capacity to reflect specializations in those areas of the world of work that are frequently dominated numerically by women, e.g. in services and clerical occupations, as well as in occupations that are numerically important in the informal economy.
12. These considerations, as well as the need for updating and clarifying distinctions to be made at different levels in the classification, had resulted in a proposal where the number of sub-major groups had increased from 28 in ISCO-88 to 42, with increase in all major groups except Major group 6,

Skilled agricultural, fishery and forestry workers, and 8, Plant and machine operators, and assemblers. The largest increase proposed was for Major group 9, Elementary occupations. An increase in the number of Minor groups from 116 to 128 would be the result of reduction in the number distinguished in Major groups 7, Craft and related trades workers, and 8, and increases in all other major groups except 3, Technicians and associate professionals, where the number would be unchanged. The proposals would change the number of unit groups to 436 (from 390 in ISCO-88), with increases in all groups except Major groups 6, 7 and 8, where the number of unit groups would be reduced by 2, 4 and 24 respectively.

13. During the discussion of this point on the agenda the experts commented both on particular proposed changes as well as on structural features that would be the result of these changes. There were no comments on the resulting number of groups at the different levels, however, and most of the comments on this overview stressed the need to ensure that the intended distinctions in the updated and revised classification would clearly emerge from the descriptive definitions to the groups, supported by the index to the classification. It was agreed that there was a need for the explanatory text that would support the updated classification to make it clear that, although ISCO-08 was an update rather than a major revision, its introduction in statistical collections would lead to a break in time series, including for data classified at the highest levels of aggregation.
14. The experts stressed the need for ISCO-08 to provide clear information on the boundaries between managerial occupations classified in Major group 1, Managers, senior officials and legislators, which in ISCO necessarily involved management of staff, and non-managerial occupations that were to be classified in other major groups. It was seen as particularly important to ensure that there was consistent and appropriate treatment of groups such as small shopkeepers and artisans who, whilst they may own their own business, do not have significant management responsibility.
15. It was agreed that it would be useful to include in the introduction to ISCO-08 a detailed discussion of the distinctions that were intended in Major group 1 and between the groups in this group and groups in other major groups. In this discussion particular attention would be made to the distinction between the groups defined for 'supervisors' and corresponding groups of managers and workers being supervised. Issues related to the distinctions to be made between Major group 1 and other major groups were raised during the discussions of these other groups, further highlighting the need for clear explanatory notes to the relevant groups both in Major group 1 and in other major groups. Brief references to the nature of these issues and their resolution are given below when reporting on the discussion of the proposals made for the major groups where these issues were raised.
16. The experts supported the proposals by the ILO to create thematic groups, which group occupations according to a particular theme, such as agriculture, health and tourism. The experts noted the potential for more thematic groups to be created where the need arose, and it was suggested that it would be useful to have a thematic group for occupations related to construction.

5 Consideration of the updated classification structure

17. Under this item of the agenda the meeting was invited to consider each of the proposed ISCO-08 major groups, as presented in the annex to the draft resolution. It was agreed that the following modifications should be made to the proposal presented to the meeting:

Major group 1, Managers, senior officials and legislators

18. With respect to Major group 1, there was, in addition to the borderline issues referred to above, concern that the proposed title of the group was long and cumbersome, especially in French and Spanish. It was felt that the inclusion of words in this title that related to numerically small occupational groups gave a misleading impression about its content. It was agreed that the inclusion in the title of the group of reference to legislators and senior officials was not necessary. It was agreed

that the name of Major group 1 should be changed in English to 'Managers', in French to 'Directeurs, cadres de direction et gérants' and in Spanish to 'Directores y gerentes'

19. To clarify some of the specific borderline issues that were raised during the discussion, it was decided to delete the proposed Unit group 1211, Corporate services managers, and to create a residual Unit group 1219, Business services managers not elsewhere classified, for the jobs intended to be included in 1211, as well as for other jobs belonging to Minor group 121 not included in any of the other unit groups separately specified for this minor group. One issue that was raised during the discussion of the proposed Major group 3 was the classification of jobs as branch managers of financial institutions. The proposal had been that they should be classified to Unit group 3312, Credit and loans officers, but it was recognized that classification of such jobs to Major group 1 might also be appropriate. Following a careful discussion of this issue, it was concluded that such jobs should be included in a new Unit group 1346, Financial and insurance services branch managers, in Major group 1.
20. During the discussion it was pointed out that the role of skill level references and distinctions within this major group would need to be presented clearly in explanatory notes to the group and its sub-major groups. Such notes would also be needed on the role and delineation of different skill specializations.

Major group 2, Professionals

21. In introducing the proposals for this major group the representative of the Director General highlighted what he considered to be the major modifications to this major group in ISCO-88. These were considered to be necessary as a consequence of the rapid and widespread changes in the world of work that had taken place as a result of technological and organizational developments.
22. While no changes were made to the sub-major, minor and unit groups proposed for this major group, the meeting identified a number of areas where it would be necessary to draft descriptive definitions and explanatory notes. This would be particularly important for Sub-major group 22, Health professionals, which includes minor and unit groups that have related groups in Major group 32, Health associate professionals, for jobs that are similar but which involve less responsibility and freedom of judgement or a more limited range of tasks, and thus are considered to be at a different skill level (see e.g. Minor group 222 Nursing and midwifery professionals and Minor group 322 Nursing and midwifery associate professionals). The meeting decided that it would not be useful to sub-divide Minor group 223, Traditional and complementary medicine professionals, into different unit groups, as the traditional knowledge and techniques used by these practitioners differ between the countries in which these are numerically important in a manner which would be difficult to reflect in ISCO. The need for explanatory notes for vocational education teachers was also stressed, in particular to reflect that such jobs may be found in different types of educational institutions. It would also be necessary to clarify the differences in task profiles and teaching settings for vocational education teachers specializing in information technology (Unit group 2310) and Information technology trainers (Unit group 2356).

Major group 3, Technicians and associate professionals

23. The representative of the Director General introduced the proposal for this major group by stressing that they were partly a reflection and consequence of the proposed changes for Major group 2, and partly a reflection of changes in the world of work that were of particular importance to jobs that should be classified to this major group.
24. Several experts pointed out that it would seem surprising to many users of ISCO that policing, religion-related and cultural jobs should be classified to the same Sub-major group (34), especially if the title of this group did not reflect its residual nature. As a consequence of the discussion on this point it was decided that Unit group 3411, Police inspectors and detectives, should be moved to Minor group 335, Regulatory government associate professionals.

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25. It was agreed that fisheries technicians would most appropriately be classified in Unit group 3141, Life science technicians (excluding medical) and that Unit group 3142 should be named 'Agricultural technicians'.
 26. It was agreed to delete the proposed Unit group 3349, Administrative secretaries not elsewhere classified, as it seemed that no known jobs would be classified to this group.
 27. It was decided that jobs classified in the proposed Unit group 5121, Chefs should be classified in Major group 3, Technicians and associate professionals, where they would be identified as a separate unit group.

Major group 4, Clerks

28. It was agreed to change the title of this major group to *Clerical support workers* in English, to *Personal de apoyo administrativo* in Spanish and to leave the French titles unchanged. The experts were satisfied with the draft for this major group and the discussion did not result in any major structural modifications to the proposals made.

Major group 5, Service and sales workers

29. In introducing the proposed changes for this major group, the representative of the Director General pointed out that the classification of commercial sex workers was a particularly difficult issue, because of the very different national legislations and attitudes concerning those involved in these activities. As a consequence, the major modification to the ISCO-88 treatment of such jobs would be to advise countries wanting to identify them separately in their national classification to do so by creating a separate Unit group (5168) instead of including them in Unit group 5169, Personal service workers not elsewhere classified. This proposal was accepted by the meeting.
30. Following an extended discussion about various types of jobs to be classified to Sub-major group 52, Sales workers, and where to define the borderline between this sub-major group and groups defined for other major groups, it was decided to introduce a new Unit group (5221) for shop keepers and other operators of small retail operations with minimal management tasks. Ownership would not be used as a criterion for assigning specific jobs to this group, but it would be made clear that jobs classified to this group will only involve very limited personnel management duties. In addition it was underlined that it would be necessary to describe carefully how the nature of the products sold as well as the setting for the sales activities would influence the skill requirements for jobs classified to Sub-major group 52. The descriptive material should make it possible to determine not only how such jobs should be classified to the different minor and unit groups in Sub-major group 52, but also how they would be distinguished from sales and related jobs to be classified to Major groups 1, 3 or 9.
31. The meeting also considered whether the proposed classification of *chefs* (as Unit group 5121) should be to the same minor group as *cooks* (as Unit group 5122) given the differences in tasks and responsibilities, and therefore in skill requirements, in many restaurants and similar establishments. Following a detailed discussion of this issue it was decided that the proposed Unit group 5121 should be moved to Major group 3, as described above in the report on the discussion of Major group 3.
32. The title of this major group in French was changed to, *Personnel des services directs aux particuliers, commerçants et vendeurs*.

Major group 6, Skilled agricultural, forestry and fishery workers

33. In presenting the proposal for this major group the representative of the Director General said that no major modifications were proposed, but that to ensure international consistency in the classification of jobs as farmers and farm operators it would be made more clear than in ISCO-88 that only jobs as

managers of production in large scale agricultural establishments (within a formalized managerial structure) would be classified to Major group 1.

34. It was decided to split the proposed Sub-major group 61, Market oriented skilled agricultural, forestry and fishery workers, into two sub-major groups: one for skilled agricultural workers and one for skilled forestry and fishery workers, without any changes to the proposed minor and unit groups.
35. Following an extended discussion on the basis for having a separate Sub-major group 62, Subsistence farmers, fishers, hunters and gatherers,, as well whether an other structure for classifying separately would be preferable, it was decided to split the proposed sub-major group into four minor groups, to mirror relevant distinctions made in Sub-major group 61 and in Sub-major group 92, Agricultural, forestry and fishery labourers, in line with suggestions made by the experts from FAO and UNECA. Some participants noted the conceptual and operational difficulties of measuring and separately identifying employment and occupations in subsistence agriculture in their countries.

Major group 7, Craft and related trades workers

36. The experts were generally satisfied with the draft for this major group, but the discussion did provide suggestions for improved group designations and the need to clarify the intended content of some of the minor and unit groups. These suggestions were to be taken into account when drafting and reviewing descriptive definitions and the index to the classification. One example would be that 'tobacco graders' should be classified with graders and tasters of food and beverages in Unit group 7515 and not in Unit group 7516, Tobacco preparers and tobacco products makers. Another was the possible confusion that may result from using the words 'building trades' when naming Sub-major group 71 and Minor group 711, since building electricians are to be classified to Unit group 7411 on the basis of their skill specialization. The use of the word 'textile' in the title for Minor group 753 was reviewed since very few textile workers are to be classified to this minor group.

Major group 8, Plant and machine operators, and assemblers

37. The experts were generally satisfied with the draft for this major group, but the discussion did result in a simplified structure for Minor group 821, Assemblers, through the merging of two Unit groups (8212 and 8213) into one, Electrical and electronic equipment assemblers, and three of the other unit groups with the residual group 8219, Assemblers not elsewhere classified, resulting in a reduction from seven to three in the number of unit groups in this minor group. The discussion also resulted in some improvements in the titles of the specified groups.

Major group 9, Elementary occupations

38. It was agreed that the title of Major group 9 should be changed in French to *Professions élémentaires*.
39. The question of whether or not labourers in subsistence agriculture should be separately identified from those working in market-oriented economic units was discussed at length. In favour of this was a perceived need to create consistency with the treatment of skilled jobs in subsistence agriculture (through the proposed Sub-major group 63), as well as the need in many countries to be able to provide statistics for all jobs and workers in subsistence agriculture, as these cannot be separately identified through other international statistical instruments². The main arguments against this were that there would be no significant differences in skill profiles for jobs classified to the two groups, and that this distinction consequently would introduce a new criterion (type of activity of the place of work) for the definition of groups in ISCO. The experts concluded that, since this would be inconsistent with the agreed conceptual framework for ISCO and would therefore be outside the

² In the International Standard Classification of All Industrial Activities (ISIC, rev. 4) subsistence agricultural activities cannot be separately identified.

mandate for the ISCO updating process, there would be no change to the proposal made in the report to the meeting.

40. A proposal to merge Unit groups 9312, Civil engineering labourers) and 9313, Building construction labourers, was considered. It was decided to retain the distinction because of the significant differences in work environments and occupational health and safety issues, as well as some differences in work acquired skill profiles for many of the jobs to be classified to these groups.

Major group 0, Armed forces occupations

41. The experts were satisfied with the draft for this major group and the discussion did not result in any major modifications to the proposals made

6 Review of the draft resolution and agreed changes to the proposed classification structure

42. The Tripartite Meeting of Experts took place in accordance with the recommendations made in the Resolution of the 17th ICLS, endorsed by the 286th Session of the Governing Body in March 2003, for the Governing Body to “convene an ILO meeting of experts to evaluate and make appropriate recommendations on the results” of the work done by the Office to “formulate the modifications and updates of ISCO-88.” The Tripartite Meeting of Experts has evaluated the work done by the Office as presented in the Report for this meeting. The Meeting of Experts recommends to the Governing Body of the ILO that the occupational classification system of major, sub-major, minor and unit groups shown in the Annex to the Resolution adopted by this Meeting be designated as the International Standard Classification of Occupations, 2008 (ISCO-08).

7 Consideration of future work and ILO plans to support implementation of the updated ISCO

43. The experts noted and supported the plans for future work with ISCO as described in section 1.6 (paragraphs 25 -27) of the report to the meeting. They stressed the need for ILO to have a continuous capacity to update the classification, within the approved structure, and to provide advice to countries on the adaptation of ISCO-08 to national circumstances, and on the application of occupational classifications to ensure effective and reliable coding in statistical surveys as well as in administrative applications (e.g. in employment services and for the regulation of migration). The experts also called on ILO to work with national bodies to translate ISCO-08 to other languages than the three ILO working languages: Arabic, Chinese, German and Russian were languages mentioned in this connection.

ANNEX 1:

Resolution Concerning Updating the International Standard Classification of Occupations

The Tripartite Meeting of Experts in 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 characterized 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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
 - 94 Food preparation assistants
 - 941 Food preparation assistants
 - 95 Street and related sales and service workers
 - 951 Street and related service workers
 - 952 Street vendors (excluding food)
 - 96 Refuse workers and other elementary workers
 - 961 Refuse workers
 - 962 Other elementary workers
 - 0 Armed forces occupations

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- 01 Commissioned armed forces officers
 - 011 Commissioned armed forces officers
 - 02 Non-commissioned armed forces officers
 - 021 Non-commissioned armed forces officers
 - 03 Armed forces occupations, other ranks
 - 031 Armed forces occupations, other ranks

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

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- 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

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- 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
 - 2222 Midwifery professionals
 - 223 Traditional and complementary medicine professionals
 - 2230 Traditional and complementary medicine professionals

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- 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
 - 2353 Other language teachers
 - 2354 Other music teachers
 - 2355 Other arts teachers
 - 2356 Information technology trainers

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- 2359 Teaching professionals not elsewhere classified
 - 24 Business and administration professionals
 - 241 Finance professionals
 - 2411 Accountants
 - 2412 Financial and investment advisers
 - 2413 Financial analysts
 - 242 Administration professionals
 - 2421 Management and organization analysts
 - 2422 Policy administration professionals
 - 2423 Personnel and careers professionals
 - 2424 Training and staff development professionals
 - 243 Sales, marketing and public relations professionals
 - 2431 Advertising and marketing professionals
 - 2432 Public relations professionals
 - 2433 Technical and medical sales professionals (excluding ICT)
 - 2434 Information and communications technology sales professionals
 - 25 Information and communications technology professionals
 - 251 Software and applications developers and analysts
 - 2511 Systems analysts
 - 2512 Software developers
 - 2513 Web and multimedia developers
 - 2514 Applications programmers
 - 2519 Software and applications developers and analysts not elsewhere classified
 - 252 Database and network professionals
 - 2521 Database designers and administrators
 - 2522 Systems administrators
 - 2523 Computer network professionals
 - 2529 Database and network professionals not elsewhere classified
 - 26 Legal, social and cultural professionals
 - 261 Legal professionals

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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
 - 8132 Photographic products machine operators
 - 814 Rubber, plastic and paper products machine operators
 - 8141 Rubber products machine operators
 - 8142 Plastic products machine operators
 - 8143 Paper products machine operators
 - 815 Textile, fur and leather products machine operators
 - 8151 Fibre preparing, spinning and winding machine operators
 - 8152 Weaving and knitting machine operators
 - 8153 Sewing machine operators
 - 8154 Bleaching, dyeing and fabric cleaning machine operators
 - 8155 Fur and leather preparing machine operators
 - 8156 Shoemaking and related machine operators
 - 8157 Laundry machine operators
 - 8159 Textile, fur and leather products machine operators not elsewhere classified
 - 816 Food and related products machine operators
 - 8160 Food and related products machine operators
 - 817 Wood processing and papermaking plant operators
 - 8171 Pulp and papermaking plant operators

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- 8172 Wood processing plant operators
 - 818 Other stationary plant and machine operators
 - 8181 Glass and ceramics plant operators
 - 8182 Steam engine and boiler operators
 - 8183 Packing, bottling and labelling machine operators
 - 8189 Stationary plant and machine operators not elsewhere classified
 - 82 Assemblers
 - 821 Assemblers
 - 8211 Mechanical machinery assemblers
 - 8212 Electrical and electronic equipment assemblers
 - 8219 Assemblers not elsewhere classified
 - 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

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- 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

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- 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

Annex 2

Tripartite Meeting of Experts on Labour Statistics: Updating the International Standard Classification of Occupations

Geneva, 3 – 6 December 2007

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