KHUNG PHÂN LOẠI QUỐC TẾ THEO NGÀNH NGHỀ ĐÀO TẠO

INTERNATIONAL STANDARD CLASSIFICATION OF OCCUPATIONS

HÀ NỘI, 2002



International Labour Organization

INTERNATIONAL STANDARD CLASSIFICATION

OF OCCUPATIONS

ISCO-88

MAJOR, SUBMAJOR AND MINOR GROUPS

Major group 1: Legislators, senior officials and managers

- 11 Legislators and senior officials
- 111 Legislators
- 112 Senior government officials
- 113 Traditional chiefs and heads of villages
- 114 Senior officials of special interest organizations
- 12 Corporate managers
- 121 Directors and chief executives
- 122 Production and operations department managers
- 123 Other departmental managers
- 13 General managers
- 131 General managers
- Major group 2: Professionals
- 21 Physical, mathematical and engineering science professionals
- 211 Physicists, chemists and related professionals
- 212 Mathematicians, statisticians and related professionals
- 213 Computing professionals
- 214 Architects, engineers and related professionals
- 22 Life science and health professionals
- 221 Life science professionals

222 Health professionals (except nursing) 223 Nursing and midwifery professionals 23 Teaching professionals 231 College, university and higher education teaching professionals 232 Secondary education teaching professionals 233 Primary and pre-primary education teaching professionals 234 Special education teaching professionals 235 Other teaching professionals 24 Other professionals 241 Business professionals 242 Legal professionals 243 Archivists, librarians and related information professionals 244 Social sciences and related professionals 245 Writers and creative or performing artists 246 Religious professionals Major group 3: Technicians and associate professionals 31 Physical and engineering science associate professionals 311 Physical and engineering science technicians 312 Computer associate professionals 313 Optical and electronic equipment operators 314 Ship and aircraft controllers and technicians 315 Safety and quality inspectors 32 Life science and health associate professionals 321 Life science technicians and related associate professionals 322 Modern health associate professionals (except nursing) 323 Nursing and midwifery associate professionals 324 Traditional medicine practitioners and faith-healers

33 Teaching associate professionals 331 Primary education teaching associate professionals 332 Pre-primary education teaching associate professionals 333 Special education teaching associate professionals 334 Other teaching associate professionals 34 Other associate professionals 341 Finance and sales associate professionals 342 Business services agents and trade brokers 343 Administrative associate professionals 344 Customs, tax and related government associate professionals 345 Police inspectors and detectives 346 Social work associate professionals 347 Artistic, entertainment and sports associate professionals 348 Religious associate professionals Major group 4: Clerks 41 Office clerks 411 Secretaries and keyboard-operating clerks 412 Numerical clerks 413 Material-recording and transport clerks 414 Library, mail and related clerks 419 Other office clerks 42 Customer service clerks 421 Cashiers, tellers and related clerks 422 Client information clerks Major group 5: Service workers and shop and market sales workers 51 Personal and protective services workers 511 Travel attendants and related workers

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- 512 Housekeeping and restaurant services workers
- 513 Personal care and related workers
- 514 Other personal service workers
- 515 Astrologers, fortune-tellers and related workers
- 516 Protective services workers
- 52 Models, salespersons and demonstrators
- 521 Fashion and other models
- 522 Shop salespersons and demonstrators
- 523 Stall and market salespersons
- Major group 6: Skilled agricultural and fishery workers
- 61 Market-oriented skilled agricultural and fishery workers
- 611 Market gardeners and crop growers
- 612 Market-oriented animal producers and related workers
- 613 Market-oriented crop and animal producers
- 614 Forestry and related workers
- 615 Fishery workers, hunters and trappers
- 62 Subsistence agricultural and fishery workers
- 621 Subsistence agricultural and fishery workers
- Major group 7: Craft and related trades workers
- 71 Extraction and building trade workers
- 711 Miners, shot-firers, stonecutters and carvers
- 712 Building frame and related trades workers
- 713 Building finishers and related trades workers
- 714 Painters, building structure cleaners and related trade workers
- 72 Metal, machinery and related trades workers
- 721 Metal moulders, welders, sheet-metalworkers, structural-metal preparers and related trades

workers

722 Blacksmiths, toolmakers and related trades workers 723 Machinery mechanics and fitters 724 Electrical and electronic equipment mechanics and fitters 73 Precision, handicraft, printing and related trades workers 731 Precision workers in metal and related materials 732 Potters, glass-makers and related trades workers 733 Handicraft workers in wood, textile, leather and related materials 734 Printing and related trades workers 74 Other craft and related trades workers 741 Food processing and related trades workers 742 Wood treaters, cabinet-makers and related trades workers 743 Textile, garment and related trades workers 744 Felt, leather and shoemaking trades workers Major group 8: Plant and machine operators and assemblers 81 Stationary plant and related operators 811 Mining and mineral-processing plant operators 812 Metal-processing plant operators 813 Glass, ceramics and related plant operators 814 Wood processing and papermaking plant operators 815 Chemical processing plant operators 816 Power production and related plant operators 817 Automated assembly-line and industrial robot operators 82 Machine operators and assemblers 821 Metal and mineral products machine operators 822 Chemical products machine operators 823 Rubber and plastic products machine operators 824 Wood products machine operators

825 Printing, binding and paper products machine operators 826 Textile, fur and leather products machine operators 827 Food and related products machine operators 828 Assemblers 829 Other machine operators and assemblers 83 Drivers and mobile plant operators 831 Locomotive engine-drivers and related workers 832 Motor vehicle drivers 833 Agricultural and other mobile plant operators 834 Ships' deck crews and related workers Major group 9: Elementary occupations 91 Sales and services elementary occupations 911 Street vendors and related workers 912 Shoe cleaning and other street services' elementary occupations 913 Domestic and related helpers, cleaners and launderers 914 Building caretakers, window and related cleaners 915 Messengers, porters, doorkeepers and related workers 916 Garbage collectors and related labourers 92 Agricultural, fishery and related labourers 921 Agricultural, fishery and related labourers 93 Labourers in mining, construction, manufacturing and transport 931 Mining and construction labourers 932 Manufacturing labourers 933 Transport labourers and freight handlers Major group 0: Armed forces 01 Armed forces 011 Armed forces

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See also the University of Warwick's website.

Updated by AL. Approved by AMO. Last update: May 18, 2000.

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International Labour Organization

RESOLUTION CONCERNING THE REVISION OF THE INTERNATIONAL STANDARD CLASSIFICATION OF OCCUPATIONS (October-November 1987)

The Fourteenth International Conference of Labour Statisticians,

Recalling the recommendation of the Eleventh International Conference of Labour Statisticians endorsing the revised

International Standard Classification of Occupations, 1968 (ISCO-68); and

Recalling the recommendation of the Thirteenth International Conference of Labour Statisticians concerning the revision of ISCO-68;

Adopts, this sixth day of November 1987, the following Resolution, which replaces that adopted in 1966:

1. The occupational classification system of major, sub-major, minor and unit groups shown in the annex to this Resolution is endorsed by the Conference and is designated the International Standard Classification of Occupations, 1988 (ISCO-88).

2. ISCO classifies jobs past, present or future. It classifies persons through their actual and potential relation with jobs. Jobs are classified 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 specialisation" required to carry out the tasks and duties of the occupations, with separate major groups for "Legislators, senor officials and managers" and for "Armed forces".

3. In collecting and processing statistics classified by occupation (e.g. for use in fields such as labour market analysis; education planning; manpower planning; occupational health analysis; wages analysis, etc.), each country should ensure the possibility of conversion into the ISCO-88 system to facilitate international use of occupational information.

4. Countries should make available to and discuss with the ILO information about how the group, aggregates thereof or subdivisions thereof defined in the classification(s) used for national purposes can best be related to the major, sub-major, minor and unit groups of ISCO-88.

5. The Conference notes that the Bureau of Statistics has provided:

(a) draft definitions of the major, sub-major, minor and unit groups;

(b) definitions and descriptions of certain occupational categories which are used in its October Inquiry⁽¹⁾.

6. The Conference notes that the Bureau of Statistics will provide:

(a) guidelines on how to collect and process occupational information in statistical censuses and surveys, and in administrative records to ensure high and uniform quality of occupational statistics;

(b) a Manual on how to develop and use national occupational classifications and dictionaries.

ANNEX

MAJOR, SUB-MAJOR, MINOR AND UNIT GROUP TITLES

MAJOR GROUP 1

LEGISLATORS, SENIOR OFFICIALS AND MANAGERS

11 LEGISLATORS AND SENIOR OFFICIALS

111 LEGISLATORS

1110 Legislators

112 SENIOR GOVERNMENT OFFICIALS

1120 Senior government officials

113 TRADITIONAL CHIEFS AND HEADS OF VILLAGES

1130 Traditional chiefs and heads of villages

114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS

1141 Senior officials of political-party organisations

1142 Senior officials of employers', workers' and other

economic-interest organisations

1143 Senior officials of humanitarian and other special-interest organisations

12 CORPORATE MANAGERS (This group is intended to include

persons who - as directors, chief executives or department

managers - manage enterprises or organisations, or

departments, requiring a total of three or more managers.)

121 DIRECTORS AND CHIEF EXECUTIVES

1210 Directors and chief executives

122 PRODUCTION AND OPERATIONS DEPARTMENT MANAGERS

1221 Production and operations department managers in

agriculture, hunting, forestry and fishing

1222 Production and operations department managers in

manufacturing

1223 Production and operations department managers in

construction

1224 Production and operations department managers in wholesale

and retail trade

1225 Production and operations department managers in

restaurants and hotels

1226 Production and operations department managers in transport,

storage and communications

1227 Production and operations department managers in business

services

1228 Production and operations department managers in personal

care, cleaning and related services

1229 Production and operations department managers not elsewhere

classified

123 OTHER DEPARTMENT MANAGERS

1231 Finance and administration department managers

1232 Personnel and industrial relations department managers

1233 Sales and marketing department managers

1234 Advertising and public relations department managers

1235 Supply and distribution department managers

1236 Computing services department managers

1237 Research and development department managers

1239 Other department managers not elsewhere classified

13 GENERAL MANAGERS (This group is intended to include persons

who manage enterprises, or in some cases organisations, on

their own behalf, or on behalf of the proprietor, with some

non-managerial help and the assistance of no more than one

http://www.ilo.org/public/english/bureau/stat/res/isco.htm

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- 2121 Mathematicians and related professionals
- 2122 Statisticians
- 213 COMPUTING PROFESSIONALS
- 2131 Computer systems designers and analysts
- 2132 Computer programmers
- 2139 Computing professionals not elsewhere classified
- 214 ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS
- 2141 Architects, town and traffic planners
- 2142 Civil engineers
- 2143 Electrical engineers
- 2144 Electronics and telecommunications engineers
- 2145 Mechanical engineers
- 2146 Chemical engineers
- 2147 Mining engineers, metallurgists and related professionals
- 2148 Cartographers and surveyors
- 2149 Architects, engineers and related professionals not
- elsewhere classified
- 22 LIFE SCIENCE AND HEALTH PROFESSIONALS
- 221 LIFE SCIENCE PROFESSIONALS
- 2211 Biologists, botanists, zoologists and related professionals
- 2212 Pharmacologists, pathologists and related professionals
- 2213 Agronomists and related professionals
- 222 HEALTH PROFESSIONALS (except nursing)
- 2221 Medical doctors
- 2222 Dentists
- 2223 Veterinarians
- 2224 Pharmacists

other manager who should also be classified in this submajor group as, in most cases, the tasks will be broader than those of a specialised manager in a larger enterprise or organisation. Non-managerial staff should be classified according to their specific tasks.

131 GENERAL MANAGERS

1311 General managers in agriculture, hunting, forestry/ and

fishing

1312 General managers in manufacturing

1313 General managers in construction

1314 General managers in wholesale and retail trade

1315 General managers of restaurants and hotels

1316 General managers in transport, storage and communications

1317 General managers of business services

1318 General managers in personal care, cleaning and related

services

1319 General managers not elsewhere classified

MAJOR GROUP 2

PROFESSIONALS

21 PHYSICAL, MATHEMATICAL AND ENGINEERING SCIENCE

PROFESSIONALS

211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

2111 Physicists and astronomers

2112 Meteorologists

2113 Chemists

2114 Geologists and geophysicists

212 MATHEMATICIANS, STATISTICIANS AND RELATED PROFESSIONALS

2229 Health professionals (except nursing) not elsewhere

classified

223 NURSING AND MIDWIFERY PROFESSIONALS

2230 Nursing and midwifery professionals

23 TEACHING PROFESSIONALS

231 COLLEGE, UNIVERSITY AND HIGHER EDUCATION TEACHING

PROFESSIONALS

2310 College, university and higher education teaching

professionals

232 SECONDARY EDUCATION TEACHING PROFESSIONALS

2320 Secondary education teaching professionals

233 PRIMARY AND PRE-PRIMARY EDUCATION TEACHING PROFESSIONALS

2331 Primary education teaching professionals

2332 Pre-primary education teaching professionals

234 SPECIAL EDUCATION TEACHING PROFESSIONALS

2340 Special education teaching professionals

235 OTHER TEACHING PROFESSIONALS

2351 Education methods specialists

2352 School inspectors

2359 Other teaching professionals not elsewhere classified

24 OTHER PROFESSIONALS

241 BUSINESS PROFESSIONALS

2411 Accountants

2412 Personnel and careers professionals

2419 Business professionals not elsewhere classified

242 LEGAL PROFESSIONALS

2421 Lawyers

2422 Judges

2429 Legal professionals not elsewhere classified

243 ARCHIVISTS, LIBRARIANS AND RELATED INFORMATION

PROFESSIONALS

2431 Archivists and curators

2432 Librarians and related information professionals

244 SOCIAL SCIENCE AND RELATED PROFESSIONALS

2441 Economists

2442 Sociologists, anthropologists and related professionals

2443 Philosophers, historians and political scientists

2444 Philologists, translators and interpreters

2445 Psychologists

2446 Social work professionals

245 WRITERS AND CREATIVE OR PERFORMING ARTISTS

2451 Authors, journalists and other writers

2452 Sculptors, painters and related artists

2453 Composers, musicians and singers

2454 Choreographers and dancers

2455 Film, stage and related actors and directors

246 RELIGIOUS PROFESSIONALS

2460 Religious professionals

MAJOR GROUP 3

TECHNICIANS AND ASSOCIATE PROFESSIONALS

31 PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS

311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS

3111 Chemical and physical science technicians

3112 Civil engineering technicians

- 3113 Electrical engineering technicians
- 3114 Electronics and telecommunications 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 COMPUTER ASSOCIATE PROFESSIONALS
- 3121 Computer assistants
- 3122 Computer equipment operators
- 3123 Industrial robot controllers
- 313 OPTICAL AND ELECTRONIC EQUIPMENT OPERATORS
- 3131 Photographers and image and sound recording equipment

operators

- 3132 Broadcasting and telecommunications equipment operators
- 3133 Medical equipment operators
- 3139 Optical and electronic equipment operators not elsewhere

classified

- 314 SHIP AND AIRCRAFT CONTROLLERS AND TECHNICIANS
- 3141 Ships' engineers
- 3142 Ships' deck officers and pilots
- 3143 Aircraft pilots and related associate professionals
- 3144 Air traffic controllers
- 3145 Air traffic safety technicians

315 SAFETY AND QUALITY INSPECTORS

3151 Building and fire inspectors

3152 Safety, health and quality inspectors

32 LIFE SCIENCE AND HEALTH ASSOCIATE PROFESSIONALS

321 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE

PROFESSIONALS

3211 Life science technicians

3212 Agronomy and forestry technicians

3213 Farming and forestry advisers

322 MODERN HEALTH ASSOCIATE PROFESSIONALS (except nursing)

3221 Medical assistants

3222 Sanitarians

3223 Dieticians and nutritionists

3224 Optometrists and opticians

3225 Dental assistants

3226 Physiotherapists and related associate professionals

3227 Veterinary assistants

3228 Pharmaceutical assistants

3229 Modern health associate professionals (except nursing) not

elsewhere classified

323 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS

3231 Nursing associate professionals

3232 Midwifery associate professionals

324 TRADITIONAL MEDICINE PRACTITIONERS AND FAITH HEALERS

3241 Traditional medicine practitioners

3242 Faith healers

33 TEACHING ASSOCIATE PROFESSIONALS

331 PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS

3310 Primary education teaching associate professionals

332 PRE-PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS

3320 Pre-primary education teaching associate professionals

333 SPECIAL EDUCATION TEACHING ASSOCIATE PROFESSIONALS

3330 Special education teaching associate professionals

334 OTHER TEACHING ASSOCIATE PROFESSIONALS

3340 Other teaching associate professionals

34 OTHER ASSOCIATE PROFESSIONALS

341 FINANCE AND SALES ASSOCIATE PROFESSIONALS

3411 Securities and finance dealers and brokers

3412 Insurance representatives

3413 Estate agents

3414 Travel consultants and organisers

3415 Technical and commercial sales representatives

3416 Buyers

3417 Appraisers, valuers and auctioneers

3419 Finance and sales associate professionals not elsewhere

classified

342 BUSINESS SERVICES AGENTS AND TRADE BROKERS

3421 Trade brokers

3422 Clearing and forwarding agents

3423 Employment agents and labour contractors

3429 Business services agents and trade brokers not elsewhere

classified

343 ADMINISTRATIVE ASSOCIATE PROFESSIONALS

3431 Administrative secretaries and related associate

professionals

3432 Legal and related business associate professionals

3433 Bookkeepers

3434 Statistical, mathematical and related associate

professionals

3439 Administrative associate professionals not elsewhere

classified

344 CUSTOMS, TAX AND RELATED GOVERNMENT ASSOCIATE PROFESSIONALS

3441 Customs and border inspectors

3442 Government tax and excise officials

3443 Government social benefits officials

3444 Government licensing officials

3449 Customs, tax and related government associate professionals

not elsewhere classified

345 POLICE INSPECTORS AND DETECTIVES

3450 Police inspectors and detectives

346 SOCIAL WORK ASSOCIATE PROFESSIONALS

3460 Social work associate professionals

347 ARTISTIC, ENTERTAINMENT AND SPORTS ASSOCIATE PROFESSIONALS

3471 Decorators and commercial designers

3472 Radio, television and other announcers

3473 Street, night-club and related musicians, singers and

dancers

3474 Clowns, magicians, acrobats and related associate

professionals

3475 Athletes, sportspersons and related associate professionals

348 RELIGIOUS ASSOCIATE PROFESSIONALS

3480 Religious associate professionals

MAJOR GROUP 4

CLERKS

41 OFFICE CLERKS

411 SECRETARIES AND KEYBOARD-OPERATING CLERKS

4111 Stenographers and typists

4112 Word-processor and related operators

4113 Data entry operators

4114 Calculating-machine operators

4115 Secretaries

412 NUMERICAL CLERKS

4121 Accounting and bookkeeping clerks

4122 Statistical and finance clerks

413 MATERIAL-RECORDING AND TRANSPORT CLERKS

4131 Stock clerks

4132 Production clerks

4133 Transport clerks

414 LIBRARY, MAIL AND RELATED CLERKS

4141 Library and filing clerks

4142 Mail carriers and sorting clerks

4143 Coding, proof-reading and related clerks

4144 Scribes and related workers

419 OTHER OFFICE CLERKS

4190 Other office clerks

42 CUSTOMER SERVICES CLERKS

421 CASHIERS, TELLERS AND RELATED CLERKS

4211 Cashiers and ticket clerks

4212 Tellers and other counter clerks

4213 Bookmakers and croupiers

- 4214 Pawnbrokers and money-lenders
- 4215 Debt-collectors and related workers
- 422 CLIENT INFORMATION CLERKS
- 4221 Travel agency and related clerks
- 4222 Receptionists and information clerks
- 4223 Telephone switchboard operators
- MAJOR GROUP 5
- SERVICE WORKERS AND SHOP AND MARKET SALES WORKERS
- 51 PERSONAL AND PROTECTIVE SERVICES WORKERS
- 511 TRAVEL ATTENDANTS AND RELATED WORKERS
- 5111 Travel attendants and travel stewards
- 5112 Transport conductors
- 5113 Travel guides
- 512 HOUSEKEEPING AND RESTAURANT SERVICES WORKERS
- 5121 Housekeepers and related workers
- 5122 Cooks
- 5123 Waiters, waitresses and bartenders
- 513 PERSONAL CARE AND RELATED WORKERS
- 5131 Child-care workers
- 5132 Institution-based personal care workers
- 5133 Home-based personal care workers
- 5139 Personal care and related workers not elsewhere classified
- 514 OTHER PERSONAL SERVICES WORKERS
- 5141 Hairdressers, barbers, beauticians and related workers
- 5142 Companions and valets
- 5143 Undertakers and embalmers
- 5149 Other personal services workers not elsewhere classified

515 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS

- 5151 Astrologers and related workers
- 5152 Fortune-tellers, palmists and related workers
- 516 PROTECTIVE SERVICES WORKERS
- 5161 Fire-fighters
- 5162 Police officers
- 5163 Prison guards
- 5169 Protective services workers not elsewhere classified
- 52 MODELS, SALESPERSONS AND DEMONSTRATORS
- 521 FASHION AND OTHER MODELS
- 5210 Fashion and other models
- 522 SHOP SALESPERSONS AND DEMONSTRATORS
- 5220 Shop salespersons and demonstrators
- 523 STALL AND MARKET SALESPERSONS
- 5230 Stall and market salespersons
- MAJOR GROUP 6
- SKILLED AGRICULTURAL AND FISHERY WORKERS
- 61 MARKET-ORIENTED SKILLED AGRICULTURAL AND FISHERY 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 MARKET-ORIENTED ANIMAL PRODUCERS AND RELATED WORKERS
- 6121 Dairy and livestock producers
- 6122 Poultry producers
- 6123 Apiarists and sericulturists

6124 Mixed-animal producers

6129 Market-oriented animal producers and related workers not

elsewhere classified

613 MARKET-ORIENTED CROP AND ANIMAL PRODUCERS

6130 Market-oriented crop and animal producers

614 FORESTRY AND RELATED WORKERS

6141 Forestry workers and loggers

6142 Charcoal burners and related workers

615 FISHERY WORKERS, HUNTERS AND TRAPPERS

6151 Aquatic-life cultivation workers

6152 Inland and coastal waters fishery workers

6153 Deep-sea fishery workers

6154 Hunters and trappers

62 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS

621 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS

6210 Subsistence agricultural and fishery workers

MAJOR GROUP 7

CRAFT AND RELATED TRADES WORKERS

71 EXTRACTION AND BUILDING TRADES WORKERS

711 MINERS, SHOTFIRERS, STONE CUTTERS AND CARVERS

7111 Miners and quarry workers

7112 Shotfirers and blasters

7113 Stone splitters, cutters and carvers

712 BUILDING FRAME AND RELATED TRADES WORKERS

7121 Builders, traditional materials

7122 Bricklayers and stonemasons

7123 Concrete placers, concrete finishers and related workers

- 7124 Carpenters and joiners
- 7129 Building frame and related trades workers not elsewhere
- classified

713 BUILDING FINISHERS AND RELATED TRADES WORKERS

- 7131 Roofers
- 7132 Floor layers and tile setters
- 7133 Plasterers
- 7134 Insulation workers
- 7135 Glaziers
- 7136 Plumbers and pipe fitters
- 7137 Building and related electricians
- 714 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES
- WORKERS
- 7141 Painters and related workers
- 7142 Varnishers and related painters
- 7143 Building structure cleaners
- 72 METAL, MACHINERY AND RELATED TRADES WORKERS
- 721 METAL MOULDERS, WELDERS, SHEET-METAL WORKERS, STRUCTURAL-
- METAL PREPARERS, AND RELATED TRADES 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
- 7216 Underwater workers
- 722 BLACKSMITHS, TOOL-MAKERS AND RELATED TRADES WORKERS
- 7221 Blacksmiths, hammer-smiths and forging-press workers

- 7222 Tool-makers and related workers
- 7223 Machine-tool setters and setter-operators
- 7224 Metal wheel-grinders, polishers and tool sharpeners
- 723 MACHINERY MECHANICS AND FITTERS
- 7231 Motor vehicle mechanics and fitters
- 7232 Aircraft engine mechanics and fitters
- 7233 Agricultural- or industrial-machinery mechanics and fitters
- 724 ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS AND FITTERS
- 7241 Electrical mechanics and fitters
- 7242 Electronics fitters
- 7243 Electronics mechanics and servicers
- 7244 Telegraph and telephone installers and servicers
- 7245 Electrical line installers, repairers and cable jointers
- 73 PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS
- 731 PRECISION WORKERS IN METAL AND RELATED MATERIALS
- 7311 Precision-instrument makers and repairers
- 7312 Musical instrument makers and tuners
- 7313 Jewellery and precious-metal workers
- 732 POTTERS, GLASS-MAKERS AND RELATED TRADES WORKERS
- 7321 Abrasive wheel formers, potters and related workers
- 7322 Glass makers, cutters, grinders and finishers
- 7323 Glass engravers and etchers
- 7324 Glass, ceramics and related decorative painters
- 733 HANDICRAFT WORKERS IN WOOD, TEXTILE, LEATHER AND RELATED

MATERIALS

- 7331 Handicraft workers in wood and related materials
- 7332 Handicraft workers in textile, leather and related

materials

734 PRINTING AND RELATED TRADES WORKERS

7341 Compositors, typesetters and related workers

7342 Stereotypers and electrotypers

7343 Printing engravers and etchers

7344 Photographic and related workers

7345 Bookbinders and related workers

7346 Silk-screen, block and textile printers

74 OTHER CRAFT AND RELATED TRADES WORKERS

741 FOOD PROCESSING AND RELATED TRADES WORKERS

7411 Butchers, fishmongers and related food preparers

7412 Bakers, pastry-cooks and confectionery makers

7413 Dairy-products makers

7414 Fruit, vegetable and related preservers

7415 Food and beverage tasters and graders

7416 Tobacco preparers and tobacco products makers

742 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS

7421 Wood treaters

7422 Cabinet makers and related workers

7423 Woodworking machine setters and setter-operators

7424 Basketry weavers, brush makers and related workers

743 TEXTILE, GARMENT AND RELATED TRADES WORKERS

7431 Fibre preparers

7432 Weavers, knitters and related workers

7433 Tailors, dressmakers and hatters

7434 Furriers and related workers

7435 Textile, leather and related pattern-makers and cutters

- 7436 Sewers, embroiderers and related workers
- 7437 Upholsterers and related workers
- 744 PELT, LEATHER AND SHOEMAKING TRADES WORKERS
- 7441 Pelt dressers, tanners and fellmongers
- 7442 Shoe-makers and related workers
- MAJOR GROUP 8
- PLANT AND MACHINE OPERATORS AND ASSEMBLERS
- 81 STATIONARY-PLANT AND RELATED OPERATORS
- 811 MINING- AND MINERAL-PROCESSING-PLANT OPERATORS
- 8111 Mining-plant operators
- 8112 Mineral-ore- and stone-processing-plant operators
- 8113 Well drillers and borers and related workers
- 812 METAL-PROCESSING-PLANT OPERATORS
- 8121 Ore and metal furnace operators
- 8122 Metal melters, casters and rolling-mill operators
- 8123 Metal-heat-treating-plant operators
- 8124 Metal drawers and extruders
- 813 GLASS, CERAMICS AND RELATED PLANT OPERATORS
- 8131 Glass and ceramics kiln and related machine operators
- 8139 Glass, ceramics and related plant operators not elsewhere

classified

814 WOOD-PROCESSING- AND PAPERMAKING-PLANT OPERATORS

- 8141 Wood-processing-plant operators
- 8142 Paper-pulp plant operators
- 8143 Papermaking-plant operators
- 815 CHEMICAL-PROCESSING-PLANT OPERATORS
- 8151 Crushing-, grinding- and chemical-mixing-machinery

operators

8152 Chemical-heat-treating-plant operators

8153 Chemical-filtering- and separating-equipment operators

8154 Chemical-still and reactor operators (except petroleum and

natural gas)

8155 Petroleum- and natural-gas-refining-plant operators

8159 Chemical-processing-plant operators not elsewhere

classified

816 POWER-PRODUCTION AND RELATED PLANT OPERATORS

8161 Power-production plant operators

8162 Steam-engine and boiler operators

8163 Incinerator, water-treatment and related plant operators

817 AUTOMATED-ASSEMBLY-LINE AND INDUSTRIAL-ROBOT OPERATORS

8171 Automated-assembly-line operators

8172 Industrial-robot operators

82 MACHINE OPERATORS AND ASSEMBLERS

821 METAL- AND MINERAL-PRODUCTS MACHINE OPERATORS

8211 Machine-tool operators

8212 Cement and other mineral products machine operators

822 CHEMICAL-PRODUCTS MACHINE OPERATORS

8221 Pharmaceutical- and toiletry-products machine operators

8222 Ammunition- and explosive-products machine operators

8223 Metal finishing-, plating- and coating-machine operators

8224 Photographic-products machine operators

8229 Chemical-products machine operators not elsewhere

classified

823 RUBBER- AND PLASTIC-PRODUCTS MACHINE OPERATORS

8231 Rubber-products machine operators 8232 Plastic-products machine operators 824 WOOD-PRODUCTS MACHINE OPERATORS 8240 Wood-products machine operators 825 PRINTING-, BINDING- AND PAPER-PRODUCTS MACHINE OPERATORS 8251 Printing-machine operators 8252 Bookbinding-machine operators 8253 Paper-products machine operators 826 TEXTILE-, FUR- AND LEATHER-PRODUCTS MACHINE OPERATORS 8261 Fibre-preparing-, spinning- and winding-machine operators 8262 Weaving- and knitting-machine operators 8263 Sewing-machine operators 8264 Bleaching-, dyeing- and cleaning-machine operators 8265 Fur- and leather-preparing-machine operators 8266 Shoemaking- and related machine operators 8269 Textile-, fur- and leather-products machine operators not elsewhere classified 827 FOOD AND RELATED PRODUCTS MACHINE OPERATORS 8271 Meat- and fish-processing-machine operators 8272 Dairy-products machine operators 8273 Grain- and spice-milling-machine operators 8274 Baked-goods, cereal and chocolate-products machine operators 8275 Fruit-, vegetable- and nut-processing-machine operators 8276 Sugar production machine operators 8277 Tea-, coffee-, and cocoa-processing-machine operators 8278 Brewers, wine and other beverage machine operators

8279 Tobacco production machine operators

828 ASSEMBLERS

8281 Mechanical-machinery assemblers

8282 Electrical-equipment assemblers

8283 Electronic-equipment assemblers

8284 Metal-, rubber- and plastic-products assemblers

8285 Wood and related products assemblers

8286 Paperboard, textile and related products assemblers

829 OTHER MACHINE OPERATORS AND ASSEMBLERS

8290 Other machine operators and assemblers

83 DRIVERS AND MOBILE-PLANT OPERATORS

831 LOCOMOTIVE-ENGINE DRIVERS AND RELATED WORKERS

8311 Locomotive-engine drivers

8312 Railway brakers, signallers and shunters

832 MOTOR-VEHICLE DRIVERS

8321 Motor-cycle drivers

8322 Car, taxi and van drivers

8323 Bus and tram drivers

8324 Heavy-truck and lorry drivers

833 AGRICULTURAL AND OTHER MOBILE-PLANT OPERATORS

8331 Motorised farm and forestry plant operators

8332 Earth-moving- and related plant operators

8333 Crane, hoist and related plant operators

8334 Lifting-truck operators

834 SHIPS' DECK CREWS AND RELATED WORKERS

8340 Ships' deck crews and related workers

MAJOR GROUP 9

ELEMENTARY OCCUPATIONS

91 SALES AND SERVICES ELEMENTARY OCCUPATIONS

911 STREET VENDORS AND RELATED WORKERS

9111 Street food vendors

9112 Street vendors, non-food products

9113 Door-to-door and telephone salespersons

912 SHOE CLEANING AND OTHER STREET SERVICES ELEMENTARY

OCCUPATIONS

9120 Shoe cleaning and other street services elementary

occupations

913 DOMESTIC AND RELATED HELPERS, CLEANERS AND LAUNDERERS

9131 Domestic helpers and cleaners

9132 Helpers and cleaners in offices, hotels and other

establishments

9133 Hand-launderers and pressers

914 BUILDING CARETAKERS, WINDOW AND RELATED CLEANERS

9141 Building caretakers

9142 Vehicle, window and related cleaners

915 MESSENGERS, PORTERS, DOORKEEPERS AND RELATED WORKERS

9151 Messengers, package and luggage porters and deliverers

9152 Doorkeepers, watchpersons and related workers

9153 Vending-machine money collectors, meter readers and related

workers

916 GARBAGE COLLECTORS AND RELATED LABOURERS

9161 Garbage collectors

9162 Sweepers and related labourers

92 AGRICULTURAL, FISHERY AND RELATED LABOURERS

921 AGRICULTURAL, FISHERY AND RELATED LABOURERS

9211 Farm-hands and labourers

9212 Forestry labourers

9213 Fishery, hunting and trapping labourers

93 LABOURERS IN MINING, CONSTRUCTION, MANUFACTURING AND

TRANSPORT

931 MINING AND CONSTRUCTION LABOURERS

9311 Mining and quarrying labourers

9312 Construction and maintenance labourers: roads, dams and

similar constructions

9313 Building construction labourers

932 MANUFACTURING LABOURERS

9321 Assembling labourers

9322 Hand packers and other manufacturing labourers

933 TRANSPORT LABOURERS AND FREIGHT HANDLERS

9331 Hand or pedal vehicle drivers

9332 Drivers of animal-drawn vehicles and machinery

9333 Freight handlers

MAJOR GROUP 0

ARMED FORCES

01 ARMED FORCES

011 ARMED FORCES

0110 Armed forces

1. See ILO: <u>Bulletin of Labour Statistics, October Inquiry Results, 1985 and 1986</u>, on occupational wages and hours of work and on retail food prices (Geneva, 1987), Appendix I, List of industries and occupations.

Updated by AL on 23 February 2000.

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INTERNATIONAL STANDARD CLASSIFICATION

OF OCCUPATIONS

ISCO-88

MAJOR, SUBMAJOR AND MINOR GROUPS

Major group 1: Legislators, senior officials and managers

- 11 Legislators and senior officials
- 111 Legislators
- 112 Senior government officials
- 113 Traditional chiefs and heads of villages
- 114 Senior officials of special interest organizations
- 12 Corporate managers
- 121 Directors and chief executives
- 122 Production and operations department managers
- 123 Other departmental managers
- 13 General managers
- 131 General managers
- Major group 2: Professionals
- 21 Physical, mathematical and engineering science professionals
- 211 Physicists, chemists and related professionals
- 212 Mathematicians, statisticians and related professionals
- 213 Computing professionals
- 214 Architects, engineers and related professionals
- 22 Life science and health professionals
- 221 Life science professionals

222 Health professionals (except nursing) 223 Nursing and midwifery professionals 23 Teaching professionals 231 College, university and higher education teaching professionals 232 Secondary education teaching professionals 233 Primary and pre-primary education teaching professionals 234 Special education teaching professionals 235 Other teaching professionals 24 Other professionals 241 Business professionals 242 Legal professionals 243 Archivists, librarians and related information professionals 244 Social sciences and related professionals 245 Writers and creative or performing artists 246 Religious professionals Major group 3: Technicians and associate professionals 31 Physical and engineering science associate professionals 311 Physical and engineering science technicians 312 Computer associate professionals 313 Optical and electronic equipment operators 314 Ship and aircraft controllers and technicians 315 Safety and quality inspectors 32 Life science and health associate professionals 321 Life science technicians and related associate professionals 322 Modern health associate professionals (except nursing) 323 Nursing and midwifery associate professionals 324 Traditional medicine practitioners and faith-healers

33 Teaching associate professionals 331 Primary education teaching associate professionals 332 Pre-primary education teaching associate professionals 333 Special education teaching associate professionals 334 Other teaching associate professionals 34 Other associate professionals 341 Finance and sales associate professionals 342 Business services agents and trade brokers 343 Administrative associate professionals 344 Customs, tax and related government associate professionals 345 Police inspectors and detectives 346 Social work associate professionals 347 Artistic, entertainment and sports associate professionals 348 Religious associate professionals Major group 4: Clerks 41 Office clerks 411 Secretaries and keyboard-operating clerks 412 Numerical clerks 413 Material-recording and transport clerks 414 Library, mail and related clerks 419 Other office clerks 42 Customer service clerks 421 Cashiers, tellers and related clerks 422 Client information clerks Major group 5: Service workers and shop and market sales workers 51 Personal and protective services workers 511 Travel attendants and related workers
- 512 Housekeeping and restaurant services workers
- 513 Personal care and related workers
- 514 Other personal service workers
- 515 Astrologers, fortune-tellers and related workers
- 516 Protective services workers
- 52 Models, salespersons and demonstrators
- 521 Fashion and other models
- 522 Shop salespersons and demonstrators
- 523 Stall and market salespersons
- Major group 6: Skilled agricultural and fishery workers
- 61 Market-oriented skilled agricultural and fishery workers
- 611 Market gardeners and crop growers
- 612 Market-oriented animal producers and related workers
- 613 Market-oriented crop and animal producers
- 614 Forestry and related workers
- 615 Fishery workers, hunters and trappers
- 62 Subsistence agricultural and fishery workers
- 621 Subsistence agricultural and fishery workers
- Major group 7: Craft and related trades workers
- 71 Extraction and building trade workers
- 711 Miners, shot-firers, stonecutters and carvers
- 712 Building frame and related trades workers
- 713 Building finishers and related trades workers
- 714 Painters, building structure cleaners and related trade workers
- 72 Metal, machinery and related trades workers
- 721 Metal moulders, welders, sheet-metalworkers, structural-metal preparers and related trades workers

722 Blacksmiths, toolmakers and related trades workers .723 Machinery mechanics and fitters 724 Electrical and electronic equipment mechanics and fitters 73 Precision, handicraft, printing and related trades workers 731 Precision workers in metal and related materials 732 Potters, glass-makers and related trades workers 733 Handicraft workers in wood, textile, leather and related materials 734 Printing and related trades workers 74 Other craft and related trades workers 741 Food processing and related trades workers 742 Wood treaters, cabinet-makers and related trades workers 743 Textile, garment and related trades workers 744 Felt, leather and shoemaking trades workers Major group 8: Plant and machine operators and assemblers 81 Stationary plant and related operators 811 Mining and mineral-processing plant operators 812 Metal-processing plant operators 813 Glass, ceramics and related plant operators 814 Wood processing and papermaking plant operators 815 Chemical processing plant operators 816 Power production and related plant operators 817 Automated assembly-line and industrial robot operators 82 Machine operators and assemblers 821 Metal and mineral products machine operators 822 Chemical products machine operators 823 Rubber and plastic products machine operators 824 Wood products machine operators

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825 Printing, binding and paper products machine operators 826 Textile, fur and leather products machine operators 827 Food and related products machine operators 828 Assemblers 829 Other machine operators and assemblers 83 Drivers and mobile plant operators 831 Locomotive engine-drivers and related workers 832 Motor vehicle drivers 833 Agricultural and other mobile plant operators 834 Ships' deck crews and related workers Major group 9: Elementary occupations 91 Sales and services elementary occupations 911 Street vendors and related workers 912 Shoe cleaning and other street services' elementary occupations 913 Domestic and related helpers, cleaners and launderers 914 Building caretakers, window and related cleaners 915 Messengers, porters, doorkeepers and related workers 916 Garbage collectors and related labourers 92 Agricultural, fishery and related labourers 921 Agricultural, fishery and related labourers 93 Labourers in mining, construction, manufacturing and transport 931 Mining and construction labourers 932 Manufacturing labourers 933 Transport labourers and freight handlers Major group 0: Armed forces 01 Armed forces 011 Armed forces

See also the University of Warwick's website.

Updated by AL. Approved by AMO. Last update: May 18, 2000.

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International Labour Organization

RESOLUTION CONCERNING THE REVISION OF THE INTERNATIONAL STANDARD CLASSIFICATION OF OCCUPATIONS (October-November 1987)

The Fourteenth International Conference of Labour Statisticians,

Recalling the recommendation of the Eleventh International Conference of Labour Statisticians endorsing the revised International Standard Classification of Occupations, 1968 (ISCO-68); and

Recalling the recommendation of the Thirteenth International Conference of Labour Statisticians concerning the revision of ISCO-68;

Adopts, this sixth day of November 1987, the following Resolution, which replaces that adopted in 1966:

1. The occupational classification system of major, sub-major, minor and unit groups shown in the annex to this Resolution is endorsed by the Conference and is designated the International Standard Classification of Occupations, 1988 (ISCO-88).

2. ISCO classifies jobs past, present or future. It classifies persons through their actual and potential relation with jobs. Jobs are classified 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 specialisation" required to carry out the tasks and duties of the occupations, with separate major groups for "Legislators, senor officials and managers" and for "Armed forces".

3. In collecting and processing statistics classified by occupation (e.g. for use in fields such as labour market analysis; education planning; manpower planning; occupational health analysis; wages analysis, etc.), each country should ensure the possibility of conversion into the ISCO-88 system to facilitate international use of occupational information.

4. Countries should make available to and discuss with the ILO information about how the group, aggregates thereof or subdivisions thereof defined in the classification(s) used for national purposes can best be related to the major, sub-major, minor and unit groups of ISCO-88.

5. The Conference notes that the Bureau of Statistics has provided:

(a) draft definitions of the major, sub-major, minor and unit groups;

(b) definitions and descriptions of certain occupational categories which are used in its October Inquiry(1).

6. The Conference notes that the Bureau of Statistics will provide:

(a) guidelines on how to collect and process occupational information in statistical censuses and surveys, and in administrative records to ensure high and uniform quality of occupational statistics;

(b) a Manual on how to develop and use national occupational classifications and dictionaries.

ANNEX

MAJOR, SUB-MAJOR, MINOR AND UNIT GROUP TITLES

MAJOR GROUP 1

LEGISLATORS, SENIOR OFFICIALS AND MANAGERS

11 LEGISLATORS AND SENIOR OFFICIALS

111 LEGISLATORS

1110 Legislators

112 SENIOR GOVERNMENT OFFICIALS

1120 Senior government officials

113 TRADITIONAL CHIEFS AND HEADS OF VILLAGES

1130 Traditional chiefs and heads of villages

114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS

1141 Senior officials of political-party organisations

1142 Senior officials of employers', workers' and other

economic-interest organisations

1143 Senior officials of humanitarian and other special-interest organisations

12 CORPORATE MANAGERS (This group is intended to include

persons who - as directors, chief executives or department

managers - manage enterprises or organisations, or

departments, requiring a total of three or more managers.)

121 DIRECTORS AND CHIEF EXECUTIVES

1210 Directors and chief executives

122 PRODUCTION AND OPERATIONS DEPARTMENT MANAGERS

1221 Production and operations department managers in

agriculture, hunting, forestry and fishing

1222 Production and operations department managers in

manufacturing

1223 Production and operations department managers in

construction

1224 Production and operations department managers in wholesale

and retail trade

1225 Production and operations department managers in

restaurants and hotels

1226 Production and operations department managers in transport,

storage and communications

1227 Production and operations department managers in business

services

1228 Production and operations department managers in personal

care, cleaning and related services

1229 Production and operations department managers not elsewhere

classified

123 OTHER DEPARTMENT MANAGERS

1231 Finance and administration department managers

1232 Personnel and industrial relations department managers

1233 Sales and marketing department managers

1234 Advertising and public relations department managers

1235 Supply and distribution department managers

1236 Computing services department managers

1237 Research and development department managers

1239 Other department managers not elsewhere classified

13 GENERAL MANAGERS (This group is intended to include persons

who manage enterprises, or in some cases organisations, on

their own behalf, or on behalf of the proprietor, with some

non-managerial help and the assistance of no more than one

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other manager who should also be classified in this submajor group as, in most cases, the tasks will be broader than those of a specialised manager in a larger enterprise or organisation. Non-managerial staff should be classified according to their specific tasks.

131 GENERAL MANAGERS

1311 General managers in agriculture, hunting, forestry/ and

fishing

1312 General managers in manufacturing

1313 General managers in construction

1314 General managers in wholesale and retail trade

1315 General managers of restaurants and hotels

1316 General managers in transport, storage and communications

1317 General managers of business services

1318 General managers in personal care, cleaning and related

services

1319 General managers not elsewhere classified

MAJOR GROUP 2

PROFESSIONALS

21 PHYSICAL, MATHEMATICAL AND ENGINEERING SCIENCE

PROFESSIONALS

211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

2111 Physicists and astronomers

2112 Meteorologists

2113 Chemists

2114 Geologists and geophysicists

212 MATHEMATICIANS, STATISTICIANS AND RELATED PROFESSIONALS

http://www.ilo.org/public/english/bureau/stat/res/isco.htm

- 2121 Mathematicians and related professionals
- 2122 Statisticians
- 213 COMPUTING PROFESSIONALS
- 2131 Computer systems designers and analysts
- 2132 Computer programmers
- 2139 Computing professionals not elsewhere classified
- 214 ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS
- 2141 Architects, town and traffic planners
- 2142 Civil engineers
- 2143 Electrical engineers
- 2144 Electronics and telecommunications engineers
- 2145 Mechanical engineers
- 2146 Chemical engineers
- 2147 Mining engineers, metallurgists and related professionals
- 2148 Cartographers and surveyors
- 2149 Architects, engineers and related professionals not
- elsewhere classified
- 22 LIFE SCIENCE AND HEALTH PROFESSIONALS
- 221 LIFE SCIENCE PROFESSIONALS
- 2211 Biologists, botanists, zoologists and related professionals
- 2212 Pharmacologists, pathologists and related professionals
- 2213 Agronomists and related professionals
- 222 HEALTH PROFESSIONALS (except nursing)
- 2221 Medical doctors
- 2222 Dentists
- 2223 Veterinarians
- 2224 Pharmacists

- 2121 Mathematicians and related professionals
- 2122 Statisticians
- 213 COMPUTING PROFESSIONALS
- 2131 Computer systems designers and analysts
- 2132 Computer programmers
- 2139 Computing professionals not elsewhere classified
- 214 ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS
- 2141 Architects, town and traffic planners
- 2142 Civil engineers
- 2143 Electrical engineers
- 2144 Electronics and telecommunications engineers
- 2145 Mechanical engineers
- 2146 Chemical engineers
- 2147 Mining engineers, metallurgists and related professionals
- 2148 Cartographers and surveyors
- 2149 Architects, engineers and related professionals not
- elsewhere classified

22 LIFE SCIENCE AND HEALTH PROFESSIONALS

221 LIFE SCIENCE PROFESSIONALS

2211 Biologists, botanists, zoologists and related professionals

2212 Pharmacologists, pathologists and related professionals

2213 Agronomists and related professionals

222 HEALTH PROFESSIONALS (except nursing)

2221 Medical doctors

2222 Dentists

2223 Veterinarians

2224 Pharmacists

2229 Health professionals (except nursing) not elsewhere

classified

223 NURSING AND MIDWIFERY PROFESSIONALS

2230 Nursing and midwifery professionals

23 TEACHING PROFESSIONALS

231 COLLEGE, UNIVERSITY AND HIGHER EDUCATION TEACHING

PROFESSIONALS

2310 College, university and higher education teaching

professionals

232 SECONDARY EDUCATION TEACHING PROFESSIONALS

2320 Secondary education teaching professionals

233 PRIMARY AND PRE-PRIMARY EDUCATION TEACHING PROFESSIONALS

2331 Primary education teaching professionals

2332 Pre-primary education teaching professionals

234 SPECIAL EDUCATION TEACHING PROFESSIONALS

2340 Special education teaching professionals

235 OTHER TEACHING PROFESSIONALS

2351 Education methods specialists

2352 School inspectors

2359 Other teaching professionals not elsewhere classified

24 OTHER PROFESSIONALS

241 BUSINESS PROFESSIONALS

2411 Accountants

2412 Personnel and careers professionals

2419 Business professionals not elsewhere classified

242 LEGAL PROFESSIONALS

2421 Lawyers

2422 Judges

2429 Legal professionals not elsewhere classified

243 ARCHIVISTS, LIBRARIANS AND RELATED INFORMATION

PROFESSIONALS

2431 Archivists and curators

2432 Librarians and related information professionals

244 SOCIAL SCIENCE AND RELATED PROFESSIONALS

2441 Economists

2442 Sociologists, anthropologists and related professionals

2443 Philosophers, historians and political scientists

2444 Philologists, translators and interpreters

2445 Psychologists

2446 Social work professionals

245 WRITERS AND CREATIVE OR PERFORMING ARTISTS

2451 Authors, journalists and other writers

2452 Sculptors, painters and related artists

2453 Composers, musicians and singers

2454 Choreographers and dancers

2455 Film, stage and related actors and directors

246 RELIGIOUS PROFESSIONALS

2460 Religious professionals

MAJOR GROUP 3

TECHNICIANS AND ASSOCIATE PROFESSIONALS

31 PHYSICAL AND ENGINEERING SCIENCE ASSOCIATE PROFESSIONALS

311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS

3111 Chemical and physical science technicians

3112 Civil engineering technicians

- 3113 Electrical engineering technicians
- 3114 Electronics and telecommunications 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 COMPUTER ASSOCIATE PROFESSIONALS
- 3121 Computer assistants
- 3122 Computer equipment operators
- 3123 Industrial robot controllers
- 313 OPTICAL AND ELECTRONIC EQUIPMENT OPERATORS
- 3131 Photographers and image and sound recording equipment

operators

- 3132 Broadcasting and telecommunications equipment operators
- 3133 Medical equipment operators
- 3139 Optical and electronic equipment operators not elsewhere

classified

- 314 SHIP AND AIRCRAFT CONTROLLERS AND TECHNICIANS
- 3141 Ships' engineers
- 3142 Ships' deck officers and pilots
- 3143 Aircraft pilots and related associate professionals
- 3144 Air traffic controllers
- 3145 Air traffic safety technicians

315 SAFETY AND QUALITY INSPECTORS

3151 Building and fire inspectors

3152 Safety, health and quality inspectors

32 LIFE SCIENCE AND HEALTH ASSOCIATE PROFESSIONALS

321 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE

PROFESSIONALS

3211 Life science technicians

3212 Agronomy and forestry technicians

3213 Farming and forestry advisers

322 MODERN HEALTH ASSOCIATE PROFESSIONALS (except nursing)

3221 Medical assistants

3222 Sanitarians

3223 Dieticians and nutritionists

3224 Optometrists and opticians

3225 Dental assistants

3226 Physiotherapists and related associate professionals

3227 Veterinary assistants

3228 Pharmaceutical assistants

3229 Modern health associate professionals (except nursing) not

elsewhere classified

323 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS

3231 Nursing associate professionals

3232 Midwifery associate professionals

324 TRADITIONAL MEDICINE PRACTITIONERS AND FAITH HEALERS

3241 Traditional medicine practitioners

3242 Faith healers

33 TEACHING ASSOCIATE PROFESSIONALS

331 PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS

3310 Primary education teaching associate professionals

332 PRE-PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS

3320 Pre-primary education teaching associate professionals

333 SPECIAL EDUCATION TEACHING ASSOCIATE PROFESSIONALS

3330 Special education teaching associate professionals

334 OTHER TEACHING ASSOCIATE PROFESSIONALS

3340 Other teaching associate professionals

34 OTHER ASSOCIATE PROFESSIONALS

341 FINANCE AND SALES ASSOCIATE PROFESSIONALS

3411 Securities and finance dealers and brokers

3412 Insurance representatives

3413 Estate agents

3414 Travel consultants and organisers

3415 Technical and commercial sales representatives

3416 Buyers

3417 Appraisers, valuers and auctioneers

3419 Finance and sales associate professionals not elsewhere

classified

342 BUSINESS SERVICES AGENTS AND TRADE BROKERS

3421 Trade brokers

3422 Clearing and forwarding agents

3423 Employment agents and labour contractors

3429 Business services agents and trade brokers not elsewhere

classified

343 ADMINISTRATIVE ASSOCIATE PROFESSIONALS

3431 Administrative secretaries and related associate

professionals

3432 Legal and related business associate professionals

3433 Bookkeepers

3434 Statistical, mathematical and related associate

professionals

3439 Administrative associate professionals not elsewhere

classified

344 CUSTOMS, TAX AND RELATED GOVERNMENT ASSOCIATE PROFESSIONALS

3441 Customs and border inspectors

3442 Government tax and excise officials

3443 Government social benefits officials

3444 Government licensing officials

3449 Customs, tax and related government associate professionals

not elsewhere classified

345 POLICE INSPECTORS AND DETECTIVES

3450 Police inspectors and detectives

346 SOCIAL WORK ASSOCIATE PROFESSIONALS

3460 Social work associate professionals

347 ARTISTIC, ENTERTAINMENT AND SPORTS ASSOCIATE PROFESSIONALS

3471 Decorators and commercial designers

3472 Radio, television and other announcers

3473 Street, night-club and related musicians, singers and

dancers

3474 Clowns, magicians, acrobats and related associate

professionals

3475 Athletes, sportspersons and related associate professionals

348 RELIGIOUS ASSOCIATE PROFESSIONALS

3480 Religious associate professionals

MAJOR GROUP 4

CLERKS

41 OFFICE CLERKS

411 SECRETARIES AND KEYBOARD-OPERATING CLERKS

4111 Stenographers and typists

4112 Word-processor and related operators

4113 Data entry operators

4114 Calculating-machine operators

4115 Secretaries

412 NUMERICAL CLERKS

4121 Accounting and bookkeeping clerks

4122 Statistical and finance clerks

413 MATERIAL-RECORDING AND TRANSPORT CLERKS

4131 Stock clerks

4132 Production clerks

4133 Transport clerks

414 LIBRARY, MAIL AND RELATED CLERKS

4141 Library and filing clerks

4142 Mail carriers and sorting clerks

4143 Coding, proof-reading and related clerks

4144 Scribes and related workers

419 OTHER OFFICE CLERKS

4190 Other office clerks

42 CUSTOMER SERVICES CLERKS

421 CASHIERS, TELLERS AND RELATED CLERKS

4211 Cashiers and ticket clerks

4212 Tellers and other counter clerks

4213 Bookmakers and croupiers

- 4214 Pawnbrokers and money-lenders
- 4215 Debt-collectors and related workers
- 422 CLIENT INFORMATION CLERKS
- 4221 Travel agency and related clerks
- 4222 Receptionists and information clerks
- 4223 Telephone switchboard operators
- MAJOR GROUP 5
- SERVICE WORKERS AND SHOP AND MARKET SALES WORKERS
- 51 PERSONAL AND PROTECTIVE SERVICES WORKERS
- 511 TRAVEL ATTENDANTS AND RELATED WORKERS
- 5111 Travel attendants and travel stewards
- 5112 Transport conductors
- 5113 Travel guides
- 512 HOUSEKEEPING AND RESTAURANT SERVICES WORKERS
- 5121 Housekeepers and related workers
- 5122 Cooks
- 5123 Waiters, waitresses and bartenders
- 513 PERSONAL CARE AND RELATED WORKERS
- 5131 Child-care workers
- 5132 Institution-based personal care workers
- 5133 Home-based personal care workers
- 5139 Personal care and related workers not elsewhere classified
- 514 OTHER PERSONAL SERVICES WORKERS
- 5141 Hairdressers, barbers, beauticians and related workers
- 5142 Companions and valets
- 5143 Undertakers and embalmers
- 5149 Other personal services workers not elsewhere classified

515 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS

- 5151 Astrologers and related workers
- 5152 Fortune-tellers, palmists and related workers
- 516 PROTECTIVE SERVICES WORKERS
- 5161 Fire-fighters
- 5162 Police officers
- 5163 Prison guards
- 5169 Protective services workers not elsewhere classified
- 52 MODELS, SALESPERSONS AND DEMONSTRATORS
- 521 FASHION AND OTHER MODELS
- 5210 Fashion and other models
- 522 SHOP SALESPERSONS AND DEMONSTRATORS
- 5220 Shop salespersons and demonstrators
- 523 STALL AND MARKET SALESPERSONS
- 5230 Stall and market salespersons
- MAJOR GROUP 6
- SKILLED AGRICULTURAL AND FISHERY WORKERS
- 61 MARKET-ORIENTED SKILLED AGRICULTURAL AND FISHERY 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 MARKET-ORIENTED ANIMAL PRODUCERS AND RELATED WORKERS
- 6121 Dairy and livestock producers
- 6122 Poultry producers
- 6123 Apiarists and sericulturists

- 6124 Mixed-animal producers
- 6129 Market-oriented animal producers and related workers not
- elsewhere classified
- 613 MARKET-ORIENTED CROP AND ANIMAL PRODUCERS
- 6130 Market-oriented crop and animal producers
- 614 FORESTRY AND RELATED WORKERS
- 6141 Forestry workers and loggers
- 6142 Charcoal burners and related workers
- 615 FISHERY WORKERS, HUNTERS AND TRAPPERS
- 6151 Aquatic-life cultivation workers
- 6152 Inland and coastal waters fishery workers
- 6153 Deep-sea fishery workers
- 6154 Hunters and trappers
- 62 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS
- 621 SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS
- 6210 Subsistence agricultural and fishery workers
- MAJOR GROUP 7
- CRAFT AND RELATED TRADES WORKERS
- 71 EXTRACTION AND BUILDING TRADES WORKERS
- 711 MINERS, SHOTFIRERS, STONE CUTTERS AND CARVERS
- 7111 Miners and quarty workers
- 7112 Shotfirers and blasters
- 7113 Stone splitters, cutters and carvers
- 712 BUILDING FRAME AND RELATED TRADES WORKERS
- 7121 Builders, traditional materials
- 7122 Bricklayers and stonemasons
- 7123 Concrete placers, concrete finishers and related workers

7124 Carpenters and joiners

.7129 Building frame and related trades workers not elsewhere

classified

713 BUILDING FINISHERS AND RELATED TRADES WORKERS

7131 Roofers

7132 Floor layers and tile setters

7133 Plasterers

7134 Insulation workers

7135 Glaziers

7136 Plumbers and pipe fitters

7137 Building and related electricians

714 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES

WORKERS

7141 Painters and related workers

7142 Varnishers and related painters

7143 Building structure cleaners

72 METAL, MACHINERY AND RELATED TRADES WORKERS

721 METAL MOULDERS, WELDERS, SHEET-METAL WORKERS, STRUCTURAL-

METAL PREPARERS, AND RELATED TRADES 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

7216 Underwater workers

722 BLACKSMITHS, TOOL-MAKERS AND RELATED TRADES WORKERS

7221 Blacksmiths, hammer-smiths and forging-press workers

- 7222 Tool-makers and related workers
- 7223 Machine-tool setters and setter-operators
- 7224 Metal wheel-grinders, polishers and tool sharpeners
- 723 MACHINERY MECHANICS AND FITTERS
- 7231 Motor vehicle mechanics and fitters
- 7232 Aircraft engine mechanics and fitters
- 7233 Agricultural- or industrial-machinery mechanics and fitters

724 ELECTRICAL AND ELECTRONIC EQUIPMENT MECHANICS AND FITTERS

- 7241 Electrical mechanics and fitters
- 7242 Electronics fitters
- 7243 Electronics mechanics and servicers
- 7244 Telegraph and telephone installers and servicers
- 7245 Electrical line installers, repairers and cable jointers
- 73 PRECISION, HANDICRAFT, PRINTING AND RELATED TRADES WORKERS
- 731 PRECISION WORKERS IN METAL AND RELATED MATERIALS
- 7311 Precision-instrument makers and repairers
- 7312 Musical instrument makers and tuners
- 7313 Jewellery and precious-metal workers
- 732 POTTERS, GLASS-MAKERS AND RELATED TRADES WORKERS
- 7321 Abrasive wheel formers, potters and related workers
- 7322 Glass makers, cutters, grinders and finishers
- 7323 Glass engravers and etchers
- 7324 Glass, ceramics and related decorative painters

733 HANDICRAFT WORKERS IN WOOD, TEXTILE, LEATHER AND RELATED

MATERIALS

- 7331 Handicraft workers in wood and related materials
- 7332 Handicraft workers in textile, leather and related

materials

734 PRINTING AND RELATED TRADES WORKERS

7341 Compositors, typesetters and related workers

7342 Stereotypers and electrotypers

7343 Printing engravers and etchers

7344 Photographic and related workers

7345 Bookbinders and related workers

7346 Silk-screen, block and textile printers

74 OTHER CRAFT AND RELATED TRADES WORKERS

741 FOOD PROCESSING AND RELATED TRADES WORKERS

7411 Butchers, fishmongers and related food preparers

7412 Bakers, pastry-cooks and confectionery makers

7413 Dairy-products makers

7414 Fruit, vegetable and related preservers

7415 Food and beverage tasters and graders

7416 Tobacco preparers and tobacco products makers

742 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS

7421 Wood treaters

7422 Cabinet makers and related workers

7423 Woodworking machine setters and setter-operators

7424 Basketry weavers, brush makers and related workers

743 TEXTILE, GARMENT AND RELATED TRADES WORKERS

7431 Fibre preparers

7432 Weavers, knitters and related workers

7433 Tailors, dressmakers and hatters

7434 Furriers and related workers

7435 Textile, leather and related pattern-makers and cutters

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- 7436 Sewers, embroiderers and related workers
- 7437 Upholsterers and related workers
- 744 PELT, LEATHER AND SHOEMAKING TRADES WORKERS
- 7441 Pelt dressers, tanners and fellmongers
- 7442 Shoe-makers and related workers
- MAJOR GROUP 8
- PLANT AND MACHINE OPERATORS AND ASSEMBLERS
- 81 STATIONARY-PLANT AND RELATED OPERATORS
- 811 MINING- AND MINERAL-PROCESSING-PLANT OPERATORS
- 8111 Mining-plant operators
- 8112 Mineral-ore- and stone-processing-plant operators
- 8113 Well drillers and borers and related workers
- 812 METAL-PROCESSING-PLANT OPERATORS
- 8121 Ore and metal furnace operators
- 8122 Metal melters, casters and rolling-mill operators
- 8123 Metal-heat-treating-plant operators
- 8124 Metal drawers and extruders
- 813 GLASS, CERAMICS AND RELATED PLANT OPERATORS
- 8131 Glass and ceramics kiln and related machine operators
- 8139 Glass, ceramics and related plant operators not elsewhere

classified

814 WOOD-PROCESSING- AND PAPERMAKING-PLANT OPERATORS

- 8141 Wood-processing-plant operators
- 8142 Paper-pulp plant operators
- 8143 Papermaking-plant operators
- 815 CHEMICAL-PROCESSING-PLANT OPERATORS
- 8151 Crushing-, grinding- and chemical-mixing-machinery

operators

8152 Chemical-heat-treating-plant operators

8153 Chemical-filtering- and separating-equipment operators

8154 Chemical-still and reactor operators (except petroleum and

natural gas)

8155 Petroleum- and natural-gas-refining-plant operators

8159 Chemical-processing-plant operators not elsewhere

classified

816 POWER-PRODUCTION AND RELATED PLANT OPERATORS

8161 Power-production plant operators

8162 Steam-engine and boiler operators

8163 Incinerator, water-treatment and related plant operators

817 AUTOMATED-ASSEMBLY-LINE AND INDUSTRIAL-ROBOT OPERATORS

8171 Automated-assembly-line operators

8172 Industrial-robot operators

82 MACHINE OPERATORS AND ASSEMBLERS

821 METAL- AND MINERAL-PRODUCTS MACHINE OPERATORS

8211 Machine-tool operators

8212 Cement and other mineral products machine operators

822 CHEMICAL-PRODUCTS MACHINE OPERATORS

8221 Pharmaceutical- and toiletry-products machine operators

8222 Ammunition- and explosive-products machine operators

8223 Metal finishing-, plating- and coating-machine operators

8224 Photographic-products machine operators

8229 Chemical-products machine operators not elsewhere

classified

823 RUBBER- AND PLASTIC-PRODUCTS MACHINE OPERATORS

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8231 Rubber-products machine operators 8232 Plastic-products machine operators 824 WOOD-PRODUCTS MACHINE OPERATORS 8240 Wood-products machine operators 825 PRINTING-, BINDING- AND PAPER-PRODUCTS MACHINE OPERATORS 8251 Printing-machine operators 8252 Bookbinding-machine operators 8253 Paper-products machine operators 826 TEXTILE-, FUR- AND LEATHER-PRODUCTS MACHINE OPERATORS 8261 Fibre-preparing-, spinning- and winding-machine operators 8262 Weaving- and knitting-machine operators 8263 Sewing-machine operators 8264 Bleaching-, dyeing- and cleaning-machine operators 8265 Fur- and leather-preparing-machine operators 8266 Shoemaking- and related machine operators 8269 Textile-, fur- and leather-products machine operators not elsewhere classified 827 FOOD AND RELATED PRODUCTS MACHINE OPERATORS 8271 Meat- and fish-processing-machine operators 8272 Dairy-products machine operators 8273 Grain- and spice-milling-machine operators 8274 Baked-goods, cereal and chocolate-products machine operators 8275 Fruit-, vegetable- and nut-processing-machine operators 8276 Sugar production machine operators 8277 Tea-, coffee-, and cocoa-processing-machine operators

8278 Brewers, wine and other beverage machine operators

8279 Tobacco production machine operators

828 ASSEMBLERS

8281 Mechanical-machinery assemblers

8282 Electrical-equipment assemblers

8283 Electronic-equipment assemblers

8284 Metal-, rubber- and plastic-products assemblers

8285 Wood and related products assemblers

8286 Paperboard, textile and related products assemblers

829 OTHER MACHINE OPERATORS AND ASSEMBLERS

8290 Other machine operators and assemblers

83 DRIVERS AND MOBILE-PLANT OPERATORS

831 LOCOMOTIVE-ENGINE DRIVERS AND RELATED WORKERS

8311 Locomotive-engine drivers

8312 Railway brakers, signallers and shunters

832 MOTOR-VEHICLE DRIVERS

8321 Motor-cycle drivers

8322 Car, taxi and van drivers

8323 Bus and tram drivers

8324 Heavy-truck and lorry drivers

833 AGRICULTURAL AND OTHER MOBILE-PLANT OPERATORS

8331 Motorised farm and forestry plant operators

8332 Earth-moving- and related plant operators

8333 Crane, hoist and related plant operators

8334 Lifting-truck operators

834 SHIPS' DECK CREWS AND RELATED WORKERS

8340 Ships' deck crews and related workers

MAJOR GROUP 9

ELEMENTARY OCCUPATIONS

91 SALES AND SERVICES ELEMENTARY OCCUPATIONS

911 STREET VENDORS AND RELATED WORKERS

9111 Street food vendors

9112 Street vendors, non-food products

9113 Door-to-door and telephone salespersons

912 SHOE CLEANING AND OTHER STREET SERVICES ELEMENTARY

OCCUPATIONS

9120 Shoe cleaning and other street services elementary

occupations

913 DOMESTIC AND RELATED HELPERS, CLEANERS AND LAUNDERERS

9131 Domestic helpers and cleaners

9132 Helpers and cleaners in offices, hotels and other

establishments

9133 Hand-launderers and pressers

914 BUILDING CARETAKERS, WINDOW AND RELATED CLEANERS

9141 Building caretakers

9142 Vehicle, window and related cleaners

915 MESSENGERS, PORTERS, DOORKEEPERS AND RELATED WORKERS

9151 Messengers, package and luggage porters and deliverers

9152 Doorkeepers, watchpersons and related workers

9153 Vending-machine money collectors, meter readers and related

workers

916 GARBAGE COLLECTORS AND RELATED LABOURERS

9161 Garbage collectors

9162 Sweepers and related labourers

92 AGRICULTURAL, FISHERY AND RELATED LABOURERS

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921 AGRICULTURAL, FISHERY AND RELATED LABOURERS

9211 Farm-hands and labourers

9212 Forestry labourers

9213 Fishery, hunting and trapping labourers

93 LABOURERS IN MINING, CONSTRUCTION, MANUFACTURING AND

TRANSPORT

931 MINING AND CONSTRUCTION LABOURERS

9311 Mining and quarrying labourers

9312 Construction and maintenance labourers: roads, dams and

similar constructions

9313 Building construction labourers

932 MANUFACTURING LABOURERS

9321 Assembling labourers

9322 Hand packers and other manufacturing labourers

933 TRANSPORT LABOURERS AND FREIGHT HANDLERS

9331 Hand or pedal vehicle drivers

9332 Drivers of animal-drawn vehicles and machinery

9333 Freight handlers

MAJOR GROUP 0

ARMED FORCES

01 ARMED FORCES

011 ARMED FORCES

0110 Armed forces

1. See ILO: <u>Bulletin of Labour Statistics</u>, <u>October Inquiry Results</u>, <u>1985</u> and <u>1986</u>, on occupational wages and hours of work and on retail food prices (Geneva, 1987), Appendix I, List of industries and occupations.

Updated by AL on 23 February 2000.

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