



International Labour Organization
Organisation internationale du Travail
Organización Internacional del Trabajo

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

*Draft ISCO-08 Group Definitions:
Occupations in Agriculture, Forestry and Fisheries*

DEPARTMENT OF STATISTICS

Issues for further consideration

Fisheries inspectors have been included in unit group 3359, Regulatory government associate professionals nec, as there are no 'fisheries technicians'. Should forestry and agricultural inspectors also be included in this group or in the relevant 'technician' group (3143, 3142) as we have done for example for building and vehicle inspectors, on the basis that they have the same technical skills and qualifications. Aquaculture technicians have been included in 3142.

ISCO 08 Code

131

Title EN

Production managers in agriculture, forestry and fisheries

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

1311

Title EN

Agricultural and forestry production managers

Lead Statement

Agricultural and forestry production managers plan, direct, and coordinate production in large scale agricultural, horticultural and forestry operations such as plantations, large ranches, collective farms and agricultural co-operatives to grow and harvest crops, and breed and raise livestock.

Task statement

Tasks include:

- (a) monitoring market activity and planning production to meet contract requirements and market demand;
- (b) establishing and managing budgets, monitoring production output and costs, recording information such as farm management practices, and preparing financial and operational reports;
- (c) conferring with buyers to arrange for the sale of crops and livestock;
- (d) contracting with farmers or independent owners for production of crops and livestock, or for management of production;
- (e) planning the type, intensity and sequence of farm operations (e.g. determining the best times for planting, spraying and harvesting);
- (f) analysing soil to determine types and quantities of fertilizer required for maximum production;
- (g) purchasing machinery, equipment, and supplies such as tractors, seed, fertilizer, and chemicals;
- (h) identifying and controlling environmental toxins, weeds, pests and diseases;
- (i) organizing farming operations such as maintaining buildings, water supply systems and equipment;
- (j) directing and coordinating activities such as planting, irrigation, chemical application, harvesting, and grading;
- (k) inspecting plantations and fields to determine maturity dates of crops, or to estimate potential crop damage from weather;
- (l) overseeing the selection, training and performance of workers and contractors.

Included occupations

Examples of the occupations classified here:

- Forestry manager
- Plantation manager,

Excluded occupations**Notes**

ISCO 08 Code

1312

Title EN

Aquaculture and fisheries production managers

Lead Statement

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

Task statement

Tasks include

- (a) monitoring market activity and planning production and fishing activities to meet contract requirements and market demand;
- (b) establishing and managing budgets, monitoring production output and costs, recording information such as fisheries management practices, and preparing financial and operational reports;
- (c) conferring with buyers to arrange for the sale of produce and catches;
- (d) contracting with fishing skippers or owners of vessels and aquaculture farms for fishing and aquaculture operations, or for management of production;
- (e) conducting and organizing stock examinations in order to identify diseases or parasites;
- (f) devising and coordinating activities to improve fish hatching and growth rates, and to prevent disease in hatcheries;
- (g) monitoring environments to maintain or improve conditions for aquatic life;
- (h) directing and monitoring trapping and spawning of fish, egg incubation, and fry rearing, applying knowledge of management and fish culturing techniques;
- (i) coordinating the selection and maintenance of brood stock;
- (j) directing and monitoring the transfer of mature fish to lakes, ponds, streams, or commercial tanks;
- (k) purchasing machinery, equipment, and supplies such as vessels and nets;
- (l) organizing operations such as maintenance of ships, boats and equipment;
- (m) overseeing the selection, training and performance of workers and contractors.

Included occupations

Examples of the occupations classified here:

- Aquaculture production manager
- Fishing operations manager
- Shore captain (fishing)
- Trawler manager

Excluded occupations

- Fish farmer - 6221
- Oyster Farmer - 6221
- Seafood Farmer - 6221
- Hatchery manager - 6221
- Fishing vessel skipper (coastal waters) - 6222
- Fishing master (deep sea) – 6223

ISCO 08 Code

2132

Title EN

Farming, forestry and fisheries advisers

Lead Statement

Farming, forestry and fisheries advisers study and provide assistance and advice on farm, forestry and fisheries management, including cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They develop techniques for increasing productivity, and study and develop plans and policies for land and fisheries management

Task statement

Tasks include:

- (a) collecting and analysing data and samples related to produce, feed, soil, water quality and other factors affecting production;
- (b) advising on techniques for improving the production of crops, livestock and fish, and alternative production options;
- (c) advising on livestock and crop disease, control of pests and weeds, soil improvement, animal husbandry and feeding programs;
- (d) studying the environmental factors affecting commercial crop production, pasture growth, animal breeding, fish stocks and the growth and health of forest trees;
- (e) studying the effects of cultivation techniques, soils, insects, diseases and fisheries practices on animal, crop, forestry and fisheries yield;
- (f) studying fish migration, growth, feeding and spawning and devising methods of collecting, fertilizing, incubating and hatching fish eggs;
- (g) researching into characteristics, use capability and productivity of soils and applying findings to development of improved agricultural, horticultural and forestry practices;
- (h) developing procedures and techniques for solving agricultural problems and improving the efficiency of production;
- (i) managing forest and fisheries resources to maximize their long-term commercial, recreational and environmental benefits;
- (j) studying the propagation and culture of forest trees, methods for improving the growth of stock, and the effects of thinning on forest yields;
- (k) investigating, planning and implementing management procedures to cope with the effects of fires, floods, droughts, soil erosion, pests and diseases;
- (l) preparing scientific reports and conducting advisory information sessions and lectures for farming, forestry and fishing communities and other groups.

Included occupations

Examples of the occupations classified here:

- Agronomist
- Fisheries adviser
- Forestry scientist
- Horticulturist
- Forestry Adviser
- Silviculturist
- Soil scientist

Excluded occupations**Notes**

ISCO 08 Code

3142

Title EN

Agricultural technicians

Lead Statement

Agricultural technicians perform tests and experiments, and provide technical and scientific support to agricultural scientists, farmers and farm managers

Task statement

Tasks include:

- (a) preparing materials and equipment for experiments, tests and analyses;
- (b) collecting and preparing specimens such as soils, plant or animal cells, tissues or parts or animal organs for experiments, tests and analyses;
- (c) assisting with and performing experiments, tests and analyses applying methods and techniques such as microscopy, histochemistry, chromatography, electrophoresis and spectroscopy;
- (d) identifying pathogenic micro-organisms and insects, parasites, fungi and weeds harmful to crops and livestock, and assisting in devising methods of control;
- (e) analysing produce to set and maintain standards of quality;
- (f) conducting or supervising operational programs such as fish hatchery, greenhouse and livestock production programs;
- (g) analysing samples of seeds for quality, purity and germination rating;
- (h) collecting data and estimating quantities and costs of materials and labour required for projects;
- (i) organizing maintenance and repairs of research equipment.

Included occupations

Examples of the occupations classified here:

- Dairy Technician
- Field Crop Technical Officer
- Herd Tester
- Horticultural Technical Officer
- Poultry Technical Officer

Excluded occupations

- Artificial inseminator - 3240
- Veterinary technician -3240

Notes

ISCO 08 Code

3143

Title EN

Forestry technicians

Lead Statement

Forestry technicians perform technical and supervisory functions in support of forestry research and forest management, harvesting, resource conservation and environmental protection.

Task statement

Tasks include:

- (a) conducting forest inventories, surveys and field measurements following accepted scientific and operational procedures;
- (b) assisting in and performing technical functions in the preparation of forest management and harvest plans using photogrammetric and mapping techniques and computerized information systems;
- (c) assisting in planning and supervision of construction of access routes and forest roads;
- (d) implementing, supervising and performing technical functions in silvicultural operations involving site preparation, planting, and tending of tree crops
- (e) coordinating activities such as timber scaling, forest fire suppression, disease or insect control or pre-commercial thinning of forest stands;
- (f) supervising and performing technical functions in forest harvesting operations;
- (g) ensuring adherence to regulations and policies concerning environmental protection, resource utilization, fire safety and accident prevention;
- (h) supervising forest tree nursery operations;
- (i) providing technical support to forestry research programs in areas such as tree improvement, seed orchard operations, insect and disease surveys or experimental forestry and forest engineering research.

Included occupations

Examples of the occupations classified here:

- Forestry technician
- Silviculture technician

Excluded occupations**Notes**

ISCO 08 Code

6

Title EN

Skilled agricultural, forestry and fishery workers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

61

Title EN

Market-oriented skilled agricultural workers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

611

Title EN

Market gardeners and crop growers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

6111

Title EN

Field crop and vegetable growers

Lead Statement

Field crop and vegetable growers plan, organize and perform farming operations to grow and harvest various types of field crop such as wheat and other cereals, rice, beetroot, sugar-cane, ground-nuts, tobacco, reed or other field crops and potatoes, cabbages or other field vegetables, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly;
- (b) preparing soil by hand or machine, and spreading fertilizers and manure;
- (c) selecting and sowing seeds, and planting seedlings;
- (d) maintaining crops by cultivating soil, by transplanting, pruning or thinning plants, and by setting up and operating irrigation equipment;
- (e) controlling weeds, pests and diseases, by applying herbicides and pesticides;
- (f) harvesting crops and destroying diseased or superfluous crops;
- (g) inspecting, cleaning, grading, packaging, storing and loading crops for sale or delivery to market;
- (h) tending working animals and and maintaining farm buildings, structures, equipment and water supply systems;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (k) training and supervising workers in crop production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations

Examples of the occupations classified here:

- Cereal farmer
- Cotton farmer
- Rice farmer
- Skilled farm worker (field crops)
- Sugar-cane grower

Excluded occupations

Some related occupations classified elsewhere:

- Agricultural production manager - 1311
- Crop farm labourer - 9211

Notes

ISCO 08 Code

6112

Title EN

Tree and shrub crop growers

Lead Statement

Tree and shrub crop growers plan organize and perform farming operations to grow and harvest trees and shrubs, such as fruit and nut trees, tea and coffee bushes, grape vines, berry-bearing bushes, cocoa trees and rubber trees and to collect sap, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly;
- (b) preparing soil by hand or machine, and spreading fertilizers and manure;
- (c) selecting and sowing seeds, and planting seedlings;
- (d) maintaining crops by cultivating soil, by transplanting, pruning or thinning trees and shrubs, and by setting up and operating irrigation equipment;
- (e) controlling weeds, pests and diseases, by applying herbicides and pesticides;
- (f) tending trees or bushes, collecting sap and harvesting crops;
- (g) inspecting, cleaning, grading, packaging, storing and loading crops for sale or delivery to market;
- (h) tending working animals and maintaining farm buildings, structures, equipment and water supply systems;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (k) training and supervising workers in crop production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors;

Included occupations

Examples of the occupations classified here:

- Rubber tapper
- Fruit farmer
- Rubber farmer
- Tea grower
- Viticulturist

Excluded occupations

Some related occupations classified elsewhere:

- Plantation manager - 1311
- Fruit picker - 9211

Notes

ISCO 08 Code

6113

Title EN

Gardeners, horticultural and nursery growers

Lead Statement

Gardeners, horticultural and nursery growers plan organize and perform operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, and to produce saplings, bulbs and seeds, or grow vegetables and flowers by intensive cultivation techniques, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Tasks statement

Tasks include:

- (a) monitoring market activity and conditions determining kinds and amounts of vegetables, horticultural and nursery products to be grown and planning and coordinating production accordingly;
- (b) preparing land by conditioning soil, levelling ground and installing and operating irrigation and drainage systems;
- (c) planting trees, hedges, garden plants, grass;
- (d) pruning and trim trees, shrubs and hedges, installing plant supports and protection, and rolling, mowing aerating and edging lawns;
- (e) constructing features and facilities within gardens, such as paths or paved areas, walls, rockeries, garden beds ponds and water features, sheds and fences;
- (f) checking the health of plants and trees, identifying and treating weeds, pests and diseases, and apply mulch and fertilizers;
- (g) producing saplings, bulbs and seeds and raising plants from seeds or cuttings;
- (h) harvesting crops inspecting, cleaning, grading, packaging, storing and loading products for sale or delivery to market;
- (i) maintaining buildings, structures, equipment and water supply systems;
- (j) storing and carrying out some processing of produce;
- (k) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of activities and transactions;
- (l) training and supervising workers in production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations

Examples of the occupations classified here:

- Horticulturist
- Landscape gardener
- Market gardener
- Mushroom cultivator

Excluded occupations

Some related occupations classified elsewhere:

- Garden labourer - 9214
- Horticultural labourer - 9214

Notes

ISCO 08 Code

6114

Title EN

Mixed crop growers

Lead Statement

Mixed-crop growers plan organize and perform farming operations to grow and harvest specific combinations of field crops, field vegetables, tree and shrub crops, and garden, horticultural and nursery products, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks statement

Tasks include:

- (a) monitoring market activity and conditions, determining types and quantities of crops to be grown, and planning and coordinating production accordingly;
- (b) preparing soil by hand or machine, and spreading fertilizers and manure;
- (c) selecting and sowing seeds, and planting seedlings;
- (d) maintaining crops by cultivating soil, by transplanting, pruning or thinning crops trees and shrubs, and by setting up and operating irrigation equipment;
- (e) growing flowers and vegetables by intensive cultivation;
- (f) producing saplings, bulbs and seeds;
- (g) harvesting crops inspecting, cleaning, grading, packaging, storing and loading products for sale or delivery to market;
- (h) tending working animals and maintaining farm buildings, structures, equipment and water supply systems;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of produce and supplies and maintaining and evaluating records of activities and transactions;
- (k) training and supervising workers in production, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations

Examples of the occupations classified here:

- Mixed crop farmer
- Skilled farm worker (mixed crops)

Excluded occupations

- Some related occupations classified elsewhere:
- Agricultural production manager - 1311
- Plantation manager - 1311
- Crop farm labourer - 9211
- Fruit picker - 9211

Notes

ISCO 08 Code

612

Title EN

Animal producers

Lead Statement

Animal producers plan, organize and perform farming operations to breed and raise domesticated animals, poultry, insects and non-domesticated animals for the production of meat, dairy products, honey, skins, textiles and other products or for use as working, sporting or recreational animals, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Task statement**Included occupations****Excluded occupations****Notes**

ISCO 08 Code

6121

Title EN

Livestock and dairy producers

Lead Statement

Livestock and dairy producers plan, organize and perform farming operations to breed and raise domesticated animals (excluding poultry), such as cattle, sheep, pigs, goats, horses and camels, for the production of meat, milk and other dairy products, skins, and wool or for use as working, sporting or recreational animals for sale or delivery to wholesale buyers, marketing organizations or at markets..

Task statement

Tasks include:

- (a) monitoring market activity and conditions, determining kinds and amounts of stock to produce, planning and coordinating production accordingly;
- (b) cultivating pastures and providing and monitoring, fodder and water supplies to maintain appropriate nutritional levels and condition of livestock;
- (c) monitoring and examining animals to detect illness, injury, or disease, and to check physical condition such as rate of weight gain;
- (d) grooming , marking, clipping, trimming, drenching and/or castrating animals and shearing coats to collect hair or wool;
- (e) herding livestock to pastures for grazing or to scales, sheds, vehicles, or other enclosures.
- (f) milking animals by hand or using milking machines;
- (g) mixing feed, additives, and medicines in prescribed portions and distributing or hand-feeding to animals for consumption;
- (h) performing duties related to livestock reproduction, such as breeding, artificial insemination, and helping with animal births;
- (i) maintaining and cleaning farm buildings, machinery, equipment , and structures;
- (j) slaughtering and skinning animals and preparing them for market;
- (k) storing and carrying out some processing of animal and dairy produce;
- (l) promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (m) training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations

Examples of the occupations classified here:

- Cattle farmer
- Dairy farmer
- Dog breeder
- Drover
- Goat farmer
- Horse breeder
- Shearer
- Sheep farmer
- Shepherd
- Stockman/woman

Excluded occupations

Agricultural production manager - 1311

Ranch manager - 1311

Notes

Workers who produce a combination of domestic livestock and other animals such as poultry, insects and non-domesticated animals should be classified according to their predominant activity. Those who produce and store hay and other fodder for later consumption, primarily by livestock for which they are responsible, are classified in unit group 6121, Livestock and dairy producers.

ISCO 08 Code

6122

Title EN

Poultry producers

Lead Statement

Poultry producers plan, organize and perform farming operations to breed and raise chickens, turkeys, geese, ducks and other poultry to produce of meat, eggs and breeding stock for sale or delivery to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) monitoring market activity, planning and coordinating production accordingly, maintaining and evaluating records of farming activities;
- (b) growing and purchasing feed and other supplies needed to maintain appropriate nutritional levels and condition of poultry;
- (c) monitoring and examining poultry to detect illness, injury, or disease, and to check physical condition, such as rate of weight gain, and removing weak, ill and dead poultry from flock.;
- (d) mixing feed and feed additives and filling feed and water containers;
- (e) vaccinating poultry via drinking water, injection, or dusting of air;
- (f) collecting and storing eggs and packaging them for sale delivery to market;
- (g) determining sex of chicks and facilitating breeding, artificial insemination, and hatching of eggs;
- (h) renting or investing in and maintaining and cleaning farm buildings, machinery, equipment , and structures;
- (i) slaughtering and dressing poultry for sale or delivery to market;
- (j) storing and carrying out some processing of produce;
- (k) arranging the sale, purchase and transportation stock, produce and supplies;
- (l) training and supervising workers in poultry production procedures, maintenance duties, and health and safety precautions, and hiring and discharging workers and contractors.

Included occupations

- Poultry breeder
- Poultry farmer
- Poultry tender

Excluded occupations**Notes**

Workers who produce a combination of domestic livestock and other animals such as poultry, insects and non-domesticated animals should be classified according to their predominant activity

ISCO 08 Code

6123

Title EN

Apiarists and sericulturists

Lead Statement

Apiarists and sericulturists plan, organize and perform operations to breed, raise and tend insects such as honey bees, silkworms, and other species to produce honey, beeswax, silk worms etc, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of insect products to produce, planning and coordinating production accordingly;
- (a) purchasing insects and growing or purchasing feed and other supplies;
- (b) breeding, raising and tending insects and collecting their products;
- (c) renting or investing in and maintaining and cleaning buildings, machinery, equipment , and structures;
- (d) storing and carrying out some processing of produce;
- (e) arranging the sale, purchase and transportation stock, produce and supplies and maintaining and evaluating records of farming activities;
- (f) training and supervising workers in production procedures, maintenance duties, and health and safety precautions, and hiring and discharging workers and contractors.

Included occupations

Examples of occupations classified here:

- Apiarist
- Sericulturist

Excluded occupations**Notes**

ISCO 08 Code

6129

Title EN

Animal producers not elsewhere classified

Lead Statement

This unit group covers market-oriented animal producers and related workers not classified elsewhere in Minor group 612, Market-oriented animal producers and related workers.

For instance, here should be classified those who are engaged in breeding, raising and tending non-domesticated mammals, game birds and other birds, snails, non-domesticated fur-giving animals, snakes and other reptiles, as well as various insects and animals used for laboratory tests, for sale or delivery on a regular basis to wholesale buyers, marketing organizations, zoos and circuses, or at markets.

Tasks statement

In such cases tasks would include -

- (b) monitoring market activity and conditions, determining kinds and amounts of products to produce, planning and coordinating production accordingly
- (c) raising, feeding and tending animals;
- (d) killing and skinning animals, and preparing animals or animal products for market;
- (e) monitoring and examining animals to detect illness, injury, or disease, and to check physical condition such as rate of weight gain;
- (f) performing duties related to animal reproduction, such as breeding, artificial insemination, and helping with animal births;
- (g) renting or investing in and maintaining and cleaning buildings, machinery, equipment, and structures;
- (h) slaughtering and skinning animals and preparing them for market;
- (i) storing and carrying out some processing of produce;
- (j) promoting and marketing products, arranging the sale, purchase and transportation of stock, produce and supplies and maintaining and evaluating records of activities and transactions
- (k) training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations

Examples of the occupations classified here:

- Crocodile farmer
- Fur farmer (non-domesticated animals)
- Game bird breeder
- Ostrich farmer
- Snail breeder,

Excluded occupations

Some related occupations classified elsewhere:

- Game warden - 5419
- Poultry breeder - 6122

Notes

ISCO 08 Code

613

Title EN

Mixed crop and animal producers

Lead Statement

Mixed crop and animal producers plan, organize and perform farming operations to grow and harvest field, tree and various other crops, as well as to breed, raise and tend animals and to produce a variety of animal husbandry products, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Tasks statement

Tasks performed usually include: monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of crops to be grown and animals to be raised, and planning and coordinating production accordingly; purchasing seeds, fertilizer, and other supplies; performing operations such as land preparation, sowing, planting, cultivating and harvesting crops; producing or buying fodder and other food supplies; breeding, raising and tending animals; killing and skinning animals, and preparing animals or animal products for market; renting or investing in and maintaining and cleaning farm buildings, machinery, equipment, and structures; storing and carrying out some processing of produce; promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions; training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations**Excluded occupations****Notes**

ISCO 08 Code

6130

Title EN

Mixed crop and animal producers

Lead Statement

Mixed crop and animal producers plan, organize and perform farming operations to grow and harvest field, tree and various other crops, as well as to breed, raise and tend animals and to produce a variety of animal husbandry products, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) monitoring market activity, planning and coordinating production accordingly, monitoring market activity and conditions, determining kinds and amounts of crops to be grown and animals to be raised, and planning and coordinating production accordingly
- (b) purchasing seeds, fertilizer, and other supplies;
- (c) performing operations such as land preparation, sowing, planting, cultivating and harvesting crops;
- (d) producing or buying fodder and other food supplies;
- (e) breeding, raising and tending animals;
- (f) killing and skinning animals, and preparing animals or animal products for market;
- (g) renting or investing in and maintaining and cleaning farm buildings, machinery, equipment , and structures;
- (h) storing and carrying out some processing of produce;
- (i) promoting and marketing products, arranging the sale, purchase and transportation of livestock, produce and supplies and maintaining and evaluating records of farm activities and transactions;
- (j) training and supervising workers in animal care procedures, maintenance duties, and health and safety precautions and hiring and discharging workers and contractors.

Included occupations

Examples of the occupations classified here:

- Farmer (mixed farming)
- Skilled farm worker (mixed farming)

Excluded occupations

Some related occupations classified elsewhere:

- Agricultural production manager – 1311
- Plantation manager - 1311
- Mixed farm labourer - 9213

Notes

ISCO 08 Code

62

Title EN

Market-oriented skilled forestry, fishery and hunting workers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

621

Title EN

Forestry and related workers

Lead Statement

Tasks include

Included occupations

Excluded occupations

Notes

ISCO 08 Code

6210

Title EN

Forestry and related workers

Lead Statement

Forestry and related workers plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests.

Task statement

Tasks include

- (a) assessing sites for reforestation, selecting seedlings and planting trees using manual planting tools and establishing and caring for forest stands;
- (b) locating trees to be felled and estimating volume of timber;
- (c) operating chainsaw and other power saws to thin young forest stands, trim, top and fell trees and saw them into logs;
- (d) shaping rough wooden products from logs at felling site;
- (e) stacking logs and loading them in chutes or floating them down rivers;
- (f) keeping watch to detect forest fires, participating in fire fighting operations complete fire fighting reports and maintaining fire fighting equipment;
- (g) controlling weeds and undergrowth in regenerating forest stands using manual tools and chemicals;
- (h) operating and maintaining a skidder, bulldozer or other prime mover to pull a variety of scarification or site preparation equipment over areas to be regenerated;
- (i) collecting seed cones, pruning trees, assisting in planting surveys and marking trees for subsequent operations;
- (j) training and supervising other workers in forestry procedures, including forestry labourers and plant operators.

Included occupations

Examples of the occupations classified here:

- Charcoal burner
- Logger
- Logging climber
- Skilled forestry worker
- Timber cruiser, timber
- Tree feller

Excluded occupations

Some related occupations classified elsewhere:

- Silviculturist - 2132
- Forestry technician, - 3143
- Tree faller operator - 8341
- Forestry labourer, - 9215

Notes

ISCO 08 Code

622

Title EN

Fishery workers, hunters and trappers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

6221

Title EN

Aquaculture workers

Lead Statement

Aquaculture workers breed and raise fish and cultivate mussels, oysters and other forms of aquatic life, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) renting or investing in buildings, equipment and machinery and purchasing food and other supplies;
- (b) breeding, raising and cultivating fish, mussels, oysters and other forms of aquatic life as cash crops or for release into freshwater or saltwater;
- (c) collecting and recording growth, production, and environmental data;
- (d) conducting and supervising stock examinations in order to identify diseases or parasites;
- (e) monitoring environments to ensure maintenance of optimum conditions for aquatic life;
- (f) direct and monitor trapping and spawning of fish, egg incubation, and fry rearing, applying knowledge of management and fish culturing techniques;
- (g) cleaning, freezing, icing or salting catch on- or offshore and preparing fish and other products for shipment;
- (h) maintaining buildings, tanks, machinery, boats and other equipment;
- (i) delivering or marketing products;
- (j) supervising and training aquaculture and fish hatchery support workers.

Included occupations

Examples of the occupations classified here:

- Algae cultivator
- Fish farmer
- Oyster farmer
- Pearl cultivator
- Seafood farmer
- Skilled/fish farm worker
- Skilled/seafood farm worker

Excluded occupations

Some related occupations classified elsewhere:

- Aquaculture production manager - 1312
- Aquaculture labourer - 9216
- Managing director, enterprise/fishing - 1210

Notes

ISCO 08 Code

6222

Title EN

Inland and coastal waters fishery workers

Lead Statement

Inland and coastal waters fishery workers, alone or as members of fishing-vessel crews, catch fish or gather other forms of aquatic life in inland or coastal waters, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) preparing and repairing nets and other fishing gear and equipment;
- (b) selecting area for fishing, plotting courses and computing navigational positions using compass, charts and other aids;
- (c) operating fishing vessels to, from and at fishing grounds;
- (d) baiting, setting, operating and hauling in fishing gear **by hand or using hoisting equipment**;
- (e) gathering different forms of aquatic life from shores and shallow waters;
- (f) maintaining engine fishing gear and other on-board equipment;
- (g) keeping records of transactions ,fishing activities, weather and sea conditions and estimating costs and budgets;
- (h) sorting, and storing catch in holds with salt and ice;
- (i) removing catches from fishing equipment, measuring them to ensure compliance with legal size and returning undesirable or illegal catches to the water;
- (j) direct fishing operations, and supervising fishing crew members.

Included occupations

- Coastal fishery skipper
- Examples of the occupations classified here:
- Fisherman/woman (coastal waters)
- Fisherwoman/man (inland waters)

Excluded occupations

Some related occupations classified elsewhere:

- Fishing operations manager – 1312
- Deep sea fisherman/woman - 6223
- Fishing Labourer, - 9216

Notes

ISCO 08 Code

6223

Title EN

Deep-sea fishery workers

Lead Statement

Deep-sea fishery workers, as skippers members of fishing vessel crews, catch deep-sea fish, for sale or delivery to wholesale buyers, marketing organizations or at markets.

Task statement

Tasks include:

- (a) preparing and repairing nets and other fishing gear and equipment;
- (b) commanding and operating fishing vessels to from and at deep-sea fishing grounds;
- (c) determining areas for fishing, plotting courses and computing navigational positions using compass, charts, tables and other aids;
- (d) steering vessels and operating navigational instruments and electronic fishing aids;
- (e) direct fishing operations and supervise crew activities;
- (f) recording fishing progress, activities, weather and sea conditions on ship's log;
- (g) baiting, setting and hauling in fishing gear;
- (h) cleaning, freezing, icing or salting catch on- or offshore;
- (i) selecting, supervising and training vessel crews.

Included occupations

Examples of the occupations classified here:

- Deep sea fisherman/woman
- Trawler skipper

Excluded occupations

Some related occupations classified elsewhere:

- Fishing operations manager - 1312
- Fisherman/woman (coastal waters) - 6222
- Fisherwoman/man (inland waters) - 6222
- Coastal fishery skipper - 6222
- Fishing labourer - 9216

Notes

ISCO 08 Code

6224

Title EN

Hunters and trappers

Lead Statement

Hunters and trappers catch and kill mammals, birds or reptiles mainly for meat, skin, feathers and other products, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets

Task statement

Tasks include:

- (a) setting traps to catch mammals, birds or reptiles;
- (b) killing trapped or free mammals, birds or reptiles with firearms or other weapons;
- (c) skinning and otherwise treating killed mammals, birds or reptiles to obtain desired products for sale or delivery;
- (d) delivering or selling trapped live mammals, birds or reptiles;
- (e) repairing and maintaining equipment.

Included occupations

- Fur trapper
- Seal hunter,
- Whale hunter

Excluded occupations**Notes**

ISCO 08 Code

63

Title EN

Subsistence farmers, fishers, hunters and gatherers

Lead Statement

Subsistence farmers, fishers, hunters and gatherers grow and harvest field or tree and shrub crops, grow vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households.

Task statement**Included occupations****Excluded occupations****Notes**

ISCO 08 Code

6310

Title EN

Subsistence crop farmers

Lead Statement

Subsistence crop farmers grow and harvest field or tree and shrub crops, and grow vegetables and fruit, in order to provide food, shelter and a minimum of cash income for themselves and their households.

Task statement

Tasks include:

- (a) preparing the soil, sowing, planting, tending and harvesting field crops;
- (b) growing vegetables, fruit and other tree and shrub crops;
- (c) fetching water and gathering firewood;
- (d) storing for later use and carrying out some processing of produce;
- (e) building and maintaining houses and other shelters;
- (f) making tools, clothes and utensils for use by the household;
- (g) selling some products at local markets.

Included occupations**Excluded occupations**

Some related occupations classified elsewhere:

- Farm labourer - 9211
- Fishery labourer - 9213

Notes

Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in sub-major group 92, Agricultural, forestry and fishery labourers

ISCO 08 Code

632

Title EN

Subsistence livestock farmers

Lead Statement

Subsistence livestock farmers breed, raise and, tend livestock in order to provide food, shelter and a minimum of cash income for themselves and their households.

Task statement

Tasks performed usually include cultivating pastures, or managing grazing lands, and monitoring feed and water supplies needed to maintain condition of livestock; monitoring and examining animals to detect illness, injury, or disease, and to check physical condition ; grooming and marking animals and shearing coats to collect hair or wool; herding or leading livestock to pastures, grazing land and water supplies; raising, tending, feeding and milking animals or draining blood from them; breeding animals and helping with animal births; slaughtering and skinning animals and preparing them and their products for consumption or sale; carrying out some processing of animal products; building and maintaining houses and other shelters; making tools, clothes and utensils for use by the household; fetching water and gathering firewood; buying, bartering and selling animals and some products.

Included occupations**Excluded occupations****Notes**

ISCO 08 Code

6320

Title EN

Subsistence livestock farmers

Lead Statement

Subsistence livestock farmers breed, raise and, tend livestock in order to provide food, shelter and a minimum of cash income for themselves and their households.

Task statement

Tasks include:

- (a) cultivating pastures, or managing grazing lands, and monitoring feed and water supplies needed to maintain condition of livestock;
- (b) monitoring and examining animals to detect illness, injury, or disease, and to check physical condition;
- (c) grooming and marking animals and shearing coats to collect hair or wool;
- (d) herding or leading livestock to pastures, grazing land and water supplies;
- (e) raising, tending, feeding and milking animals or draining blood from them;
- (f) breeding animals and helping with animal births;
- (g) slaughtering and skinning animals and preparing them and their products for consumption or sale;
- (h) carrying out some processing of animal products;
- (i) building and maintaining houses and other shelters;
- (j) making tools, clothes and utensils for use by the household;
- (k) fetching water and gathering firewood;
- (l) buying, bartering and selling animals and some products.

Included occupations**Excluded occupations****Notes**

Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in sub-major group 92, Agricultural, forestry and fishery labourers

ISCO 08 Code

633

Title EN

Subsistence mixed crop and livestock farmers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

6330

Title EN

Subsistence mixed crop and livestock farmers

Lead Statement

Subsistence mixed crop and livestock farmers grow and harvest field or tree and shrub crops, grow vegetables and fruit, gather wild fruits, medicinal and other plants, tend or hunt animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households

Task statement

Tasks include:

- (a) preparing the soil, sowing, planting, tending and harvesting field crops;
- (b) growing vegetables, fruit and other tree and shrub crops;
- (c) gathering wild fruits, medicinal and other plants;
- (d) breeding, tending and feeding animals and poultry mainly to obtain meat, eggs, milk, hair, skin or other products;
- (e) fetching water and gathering firewood;
- (f) storing produce for later use and carrying out some processing of produce;
- (g) building and maintaining houses and other shelters;
- (h) making tools, clothes and utensils for use by the household;
- (i) selling some products at local markets.

Included occupations**Excluded occupations****Notes**

Workers in a subsistence setting whose main tasks are fetching water and gathering firewood, are classified in unit group 9624, Water and firewood collectors. Workers in subsistence agriculture who perform a limited range of simple and routine tasks, usually under the direction of others, are classified in the relevant unit group in sub-major group 92, Agricultural, forestry and fishery labourers

ISCO 08 Code

634

Title EN

Subsistence fishers, hunters, trappers and gatherers

Lead Statement

Subsistence fishers, hunters, trappers and gatherers gather wild fruits, medicinal and other plants, hunt and trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households

Task statement

Tasks performed usually include gathering wild fruits, roots, medicinal and other plants; hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products; fetching water and gathering firewood; catching fish and gathering other forms of aquatic life; storing or carrying out some processing of their produce; building and maintaining houses and other shelters; making tools, clothes and utensils for use by the household; selling some products at local markets.

Task statement**Included occupations****Excluded occupations****Notes**

ISCO 08 Code

6340

Title EN

Subsistence fishers, hunters, trappers and gatherers

Lead Statement

Subsistence fishers, hunters, trappers and gatherers gather wild fruits, medicinal and other plants, hunt and trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum of cash income for themselves and their households

Task statement

Task statement:

- (a) gathering wild fruits, roots, medicinal and other plants;
- (b) hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products;
- (c) fetching water and gathering firewood;
- (d) catching fish and gathering other forms of aquatic life;
- (e) storing or carrying out some processing of their produce;
- (f) building and maintaining houses and other shelters;
- (g) making tools, clothes and utensils for use by the household;
- (h) selling some products at local markets.

Included occupations**Excluded occupations****Notes**

ISCO 08 Code

8341

Title EN

Mobile farm and forestry plant operators

Lead Statement

Motorised farm and forestry plant operators drive, tend, operate and monitor one or more types of special-purpose motorised, mobile machinery or equipment used in agricultural, horticultural and forestry operations.

Task statement

Tasks include:

- (a) driving and tending tractor-drawn or self-propelled special-purpose farm machinery to plough land and sow, fertilize, cultivate and harvest crops;
- (b) driving and tending tractor-drawn or self-propelled special-purpose forestry machinery to clear land, plant, harvest and carry trees and timber or perform other forestry operations;
- (c) preparing and positioning plant for operation;
- (d) adjusting speed, height and depth of implements;
- (e) operating plant to hold, lift and cut trees;
- (f) operating attachments to lift, swing, release and sort trees and logs, and operating auxiliary plant such as chipping machines and log splitting machines;
- (g) feeding felled trees into processors to strip limbs and cut into logs and loading logs onto stockpiles and into trucks;
- (h) servicing machinery and performing minor repairs.

Included occupations

Examples of the occupations classified here:

- Harvester operator
- Logging plant operator
- Timber carrier driver
- Tractor driver
- Tree faller operator

Excluded occupations

- Bulldozer operator - 8342

Notes

ISCO 08 Code

92

Title EN

Agricultural, forestry and fishery labourers

Lead Statement

Task statement

Included occupations

Excluded occupations

Notes

ISCO 08 Code

921

Title EN

Agricultural, forestry and fishery labourers

Lead Statement**Task statement****Included occupations****Excluded occupations****Notes**

ISCO 08 Code

9211

Title EN

Crop farm labourers

Lead Statement

Crop farm labourers perform simple and routine tasks in the production of crops such as fruit, nuts, grains and vegetables on farms.

Task statement

Tasks include:

- (a) digging and shovelling to clear ditches or for other purposes;
- (b) loading and unloading supplies, produce and other materials;
- (c) raking, pitching and stacking straw, hay and similar material;
- (d) watering, thinning, and weeding crops by hand or using hand tools;
- (e) picking fruit, nuts, vegetables and other crops;
- (f) planting and harvesting field crops, such as rice, by hand;
- (g) grading, sorting, bunching and packing produce into containers;
- (h) performing minor repairs on fixtures, buildings and fences.

Included occupations

Examples of the occupations classified here:

- Cane planter
- Fruit picker
- Rice farm labourer
- Vegetable picker

Excluded occupations

Some related occupations classified elsewhere:

- Skilled farm worker (field crops) - 6111

Notes

ISCO 08 Code

9212

Title EN

Livestock farm labourers

Lead Statement

Livestock farm labourers perform simple and routine tasks in farm production of animals, including poultry and insects.

Task statement

Tasks include:

- (a) digging and shovelling to clear ditches or for other purposes;
- (b) loading and unloading supplies, produce and other materials;
- (c) feeding, watering, and cleaning animals and keeping their quarters clean;
- (d) monitoring livestock and reporting on their condition;
- (e) assisting with maintaining the health and welfare of livestock
- (f) assisting with herding, droving and separating livestock for milking, shearing transportation or slaughter and between pastures;
- (g) collecting eggs and placing in incubators;
- (h) raking, pitching, stacking and storing hay, straw and other types of animal feed and bedding
- (i) grading, sorting, packing produce into containers;
- (j) performing minor repairs on fixtures, buildings and fences.

Included occupations

Examples of the occupations classified here:

- Livestock farm labourer

Excluded occupations

Some related occupations classified elsewhere:

- Shepherd – 6121
- Skilled farm worker (livestock) - 6111
- Drover - 6121

Notes

ISCO 08 Code

9213

Title EN

Mixed crop and livestock farm labourers

Lead Statement

Mixed crop and livestock farm labourers perform simple and routine tasks in farm production of crops as well as animals.

Task statement

Tasks include:

- (a) digging and shovelling to clear ditches or for other purposes;
- (b) loading and unloading supplies, produce and other materials;
- (c) raking, pitching and stacking straw, hay and similar material;
- (d) watering, thinning, and weeding crops by hand or using hand tools;
- (e) picking fruit, nuts, vegetables and other crops and collecting eggs ;
- (f) planting and harvesting field crops, such as rice, by hand;
- (g) feeding, watering, and cleaning animals and keeping their quarters clean;
- (h) monitoring livestock, reporting on their condition;
- (i) assisting with herding, droving and separating livestock for milking, shearing transportation or slaughter and between pastures;
- (j) grading, sorting, bunching and packing produce into containers;
- (k) performing minor repairs on fixtures, buildings and fences.

Included occupations

Examples of the occupations classified here:

- Farm labourer
- Fruit Picker

Excluded occupations

Some related occupations classified elsewhere:

- Skilled farm worker (mixed crop and livestock) - 6130

Notes

ISCO 08 Code

9214

Title EN

Garden and horticultural labourers

Lead Statement

Garden and horticultural labourers perform simple and routine tasks in operations to cultivate and maintain trees, shrubs, flowers and other plants in parks and private gardens, to produce saplings, bulbs and seeds, or grow vegetables and flowers by intensive cultivation techniques

Task statement

Tasks include:

- (a) loading, unloading and moving supplies, produce and equipment;
- (b) preparing garden sites and plots using hand tools and simple machines;
- (c) assisting with planting and transplanting flowers, shrubs, trees and lawns;
- (d) maintaining gardens by watering, weeding and mowing lawns;
- (e) cleaning gardens and removing rubbish;
- (f) assisting with propagating, planting and potting seeds, bulbs and cuttings;
- (g) tending plants by hand watering and weeding;
- (h) harvesting and packaging plants for sale and transport;
- (i) performing minor repairs on fixtures, buildings and fences.

Included occupations

Examples of the occupations classified here:

- Garden labourer
- Horticultural labourer
- Lawn mower
- Nursery labourer

Excluded occupations

Some related occupations classified elsewhere:

- Market gardener - 6113
- Landscape gardener - 6113
- Horticulturist - 6113
- Crop farm labourer, - 9211

Notes

ISCO 08 Code

9215

Title EN

Forestry labourers

Lead Statement

Forestry labourers perform simple and routine cultivating and maintaining natural and plantation forests, and logging, felling and sawing trees.

Task statement

Tasks include:

- (a) digging holes for tree planting;
- (b) stacking and loading logs and timber;
- (c) clearing undergrowth in forest stands and thinning young plantations;
- (d) maintaining look-out for fires in forests;
- (e) removing major branches and tree tops, trimming branches and sawing trunks into logs;
- (f) operating and maintaining manual and hand held machine saws to fell trees and cut felled trees and branches into logs;
- (g) collecting seeds, and planting seedlings;
- (h) performing minor repairs and maintenance of forest roads, buildings, facilities, and equipment.

Included occupations

Examples of the occupations classified here:

- Forestry labourer, forestry

Excluded occupations

Some related occupations classified elsewhere:

- Forestry worker, skilled - 6141

Notes

ISCO 08 Code

9216

Title EN

Fishery and aquaculture labourers

Lead Statement

Fishery and aquaculture labourers, performing simple and routine tasks to cultivate, catch and harvest fish and seafood in aquaculture and inland, coastal and deep sea fishing operations.

Task statement

Tasks include:

- (a) cleaning the sea-bed and feeding fish and molluscs that are being cultivated;
- (b) gathering seaweed, sea mosses, clams and other molluscs;
- (c) prepare nets, lines and other fishing tackle and other deck equipment;
- (d) operating fishing gear to catch fish and other marine life;
- (e) clean, sorting and packing fish and seafood in ice and salt and stowing catch in hold;
- (f) cleaning deck surfaces and fish hold;
- (g) handling mooring lines during docking.

Included occupations

Examples of the occupations classified here:

- Aquaculture labourer
- Fishery labourer

Excluded occupations

Some related occupations classified elsewhere:

- Fish farmer - 6221
- Coastal fishery skipper - 6222
- Fisherman/woman (coastal waters) - 6222
- Fisherwoman/man (inland waters) - 6222
- Deep sea fisherman/woman - 6223
- Trawler skipper - 6223

Notes