



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 Transportation*

POLICY INTEGRATION DEPARTMENT
BUREAU OF STATISTICS

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ISCO-08 Draft Definitions - Transportation

ISCO 08 Code

315

Title EN

Ship and aircraft controllers and technicians

Lead Statement

Ship and aircraft controllers and technicians, command and navigate ships and aircraft, perform technical functions to ensure safe and efficient movement and operations, and develop electrical, electromechanical, and computerized air control systems.

Task statement

Tasks performed usually include: controlling the operation of mechanical, electrical and electronic equipment on board ship or on aircraft, commanding and navigating ships or aircraft, directing the movements of ships or aircraft and developing electrical, electromechanical, and computerized air control systems.

Included occupations

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

- 3151 Ships' engineers
- 3152 Ships' deck officers and pilots
- 3153 Aircraft pilots and related associate professionals
- 3154 Air traffic controllers
- 3155 Air traffic safety technicians

Excluded occupations

Notes

ISCO 08 Code
3151
Title EN
Ships' engineers

Lead Statement

Ships' engineers control and participate in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship, or perform related supporting functions on shore.

Task statement

Tasks include:

- (a) controlling and participating in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship;
- (b) ordering fuel and other engine-room department stores and maintaining record of operations;
- (c) performing technical supervision of the installation, maintenance and repair of ship's machinery and equipment to ensure compliance with specifications and regulations;
- (d) inspecting and conducting maintenance and emergency repairs to engines, machinery and auxiliary equipment;
- (e) standing engine room watch, monitoring and noting performance of engines, machinery and auxiliary equipment;
- (f) supervising other workers.

Included occupations

Examples of the occupations classified here:

- Engineer, ship

Excluded occupations

Some related occupations classified elsewhere:

Marine Engineer - 2144

Notes

ISCO 08 Code**3152****Title EN****Ships' deck officers and pilots****Lead Statement**

Ships' deck officers and pilots command and navigate ships and similar vessels, and perform related functions on shore.

Task statement

Tasks include:

- (a) commanding and navigating ship or similar vessel at sea or on inland waterways;
- (b) controlling and participating in deck and bridge-watch activities;
- (c) navigating vessels into and out of ports and through channels, straits and other waters where special knowledge is required;
- (d) ensuring safe loading and unloading of cargo and observance of safety regulations and procedures by crew and passengers;
- (e) performing technical supervision of maintenance and repair of ship to ensure compliance with specifications and regulations;
- (f) applying knowledge of principles and practices relating to ship's operation and navigation in order to identify and solve problems arising in the course of their work;
- (g) ordering ship's stores and recruiting crew as required and maintaining record of operations;
- (h) transmitting and receiving routine and emergency information with shore stations and other ships;
- (i) supervising other workers.

Included occupations

Examples of the occupations classified here:

- Captain ship/sea
- Pilot, ship
- Skipper, yacht

Excluded occupations

Some related occupations classified elsewhere:

Sailor - 8350

Notes

ISCO 08 Code**3153****Title EN****Aircraft pilots and related associate professionals****Lead Statement**

Aircraft pilots and related associate professionals control the operation of mechanical, electrical and electronic equipment, in order to navigate aircraft for transporting passengers, mail and freight and perform related pre-flight and in-flight tasks.

Task statement

Tasks include:

- (a) flying and navigating aircraft in accordance with established control and operating procedures;
- (b) preparing and submitting flight plan or examining standard flight plan;
- (c) controlling the operation of mechanical, electrical and electronic equipment and ensuring that all instruments and controls work properly;
- (d) applying knowledge of principles and practices of flying in order to identify and solve problems arising in the course of their work;
- (e) examining maintenance records and conducting inspections to ensure that aircraft are mechanically sound, maintenance has been performed and that all equipment is operational.;
- (f) signing necessary certificates and maintaining official records of flight;
- (g) obtaining briefings and clearances before flights and maintaining contact with air traffic or flight control during flight.

Included occupations

Examples of the occupations classified here:

- Engineer, flight
- Instructor, flying
- Navigator, flight
- Pilot, aircraft

Excluded occupations**Notes**

ISCO 08 Code**3154****Title EN****Air traffic controllers****Lead Statement**

Air traffic controllers direct aircraft movements in airspace and on the ground, using radio, radar and lighting systems, and provide information relevant to the operation of aircraft.

Task statement

Tasks include:

- (a) directing and controlling aircraft approaching and leaving airport and their movement on the
- (b) ground;
- (c) directing and controlling aircraft operating in designated airspace sector;
- (d) examining and approving flight plans;
- (e) informing flight crew and operations staff about weather conditions, operational facilities, flight
- (f) plans and air traffic;
- (g) applying knowledge of principles and practices of air traffic control in order to identify and solve problems arising in the course of their work;
- (h) initiating and organising emergency, search and rescue services and procedures;
- (i) directing activities of all aircraft and service vehicles on or near airport runways;
- (j) maintaining radio and telephone contact with adjacent control towers, terminal control units and other control centres, and coordinating the movement of aircraft into adjoining areas.

Included occupations

Examples of the occupations classified here:

- Controller, air traffic

Excluded occupations**Notes**

ISCO 08 Code**3155****Title EN****Air traffic safety electronics technicians****Lead Statement**

Air traffic safety electronics technicians perform technical tasks concerning the design, installation, management, operation, maintenance and repair of air traffic control and air navigation systems.

Task statement

Tasks include:

- (a) carrying out technical duties related to development work concerning electronic and
- (b) electromechanical and computerized equipment of air navigation systems, and testing prototypes;
- (c) providing technical help in the design and layout of specific interface circuitry of air navigation and aircraft detection tracking systems;
- (d) preparing and contributing to the preparation of cost estimates and technical and training
- (e) specifications for air traffic control and safety equipment;
- (f) providing or assisting with the technical supervision of construction, installation and operation of
- (g) ground-based air navigation equipment and its maintenance and repair to ensure that standards and
- (h) specifications are met;
- (i) applying the knowledge and skills of air traffic safety engineering principles and practices in order to identify and solve problems arising in the course of their work; developing, modifying and debugging system software;
- (j) modifying existing ground-based air navigation systems/equipment to adapt it to new air traffic
- (k) control procedures; in order to improve capability, reliability and integrity, or to facilitate air traffic control procedures and airspace designation;
- (l) controlling, monitoring and certifying communication navigation and surveillance air traffic
- (m) management equipment and calibrating the ground-based air navigation system/equipment to ensure maximum accuracy and safety of flight, take-off and landing operations;
- (n) providing technical training and supervising other workers.

Included occupations

Example of the occupations classified here: Technician, Engineer, air traffic safety

Excluded occupations

Some related occupations classified elsewhere:

Aeromechanic - 7232

Notes

ISCO 08 Code**83****Title EN****Drivers and mobile plant operators****Lead Statement**

Drivers and mobile plant operators drive and tend trains and motor vehicles, or drive, operate and monitor industrial and agricultural machinery and equipment, or execute deck duties on board ship and other water-borne craft.

Task statement

Tasks performed by workers in this sub-major group usually include: driving and tending trains and motor vehicles; driving, operating and monitoring mobile industrial and agricultural machinery and equipment; carrying out deck duties on board ship and other water-borne craft.

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

ISCO 08 Code**831****Title EN****Locomotive engine drivers and related workers****Lead Statement**

Locomotive engine drivers and related workers drive, or assist in driving, locomotive engines to transport passengers and freight, take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

Task statement

Tasks performed usually include driving or assisting in driving railway engines, operating railway signals, switching rolling stock and making up trains in railway yards, making up trains in mines and controlling their movement.

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

ISCO 08 Code**8311****Title EN****Locomotive engine drivers****Lead Statement**

Locomotive-engine drivers drive, or assist in driving, locomotive engines to transport passengers and freight.

Task statement

Tasks include:

- (a) driving or assisting in driving a steam, electric or diesel-electric locomotive engine;
- (b) driving an underground or elevated passenger train;
- (c) driving a locomotive to haul carriages underground or on the surface of a mine or quarry;
- (d) watching for track hazards, observing signals and indicator gauges;
- (e) operating communications systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains;
- (f) supervising other workers.

Included occupations

Examples of the occupations classified here:

- Driver, locomotive
- Driver, train

Excluded occupations

Street tramcar driver - 8331

Notes

ISCO 08 Code**8312****Title EN****Railway brakemen, signallers and shunters****Lead Statement**

Railway brakemen, signallers and shunters take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

Task statement

Tasks include:

- (a) taking charge of and safeguarding freight train during run;
- (b) controlling flow of railway traffic over section of line by operating signals and switches from control panel or signal box;
- (c) switching and coupling rolling stock in railway yards and sidings in accordance with orders about loading, unloading and make-up of trains;
- (d) making up trains for hauling by locomotive or cable and directing their movement along haulage ways in a mine or quarry;
- (e) checking train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run.

Included occupations

Examples of the occupations classified here:

- Braker, railway
- Shunter, railway
- Signaller, railway

Excluded occupations**Notes**

ISCO 08 Code

832

Title EN

Car, van and motorcycle drivers

Lead Statement

Car, van and motorcycle drivers drive and tend motor cycles, motorized tricycles, cars or vans to transport passengers, materials or goods.

Task statement

Tasks performed usually include: driving and tending motor cycles, motorized tricycles, cars or vans in order to transport materials, goods or passengers.

Included occupations

Excluded occupations

Notes

ISCO 08 Code
8321
Title EN
Motorcycle drivers

Lead Statement

Motorcycle drivers drive and tend motor cycles or motorized tricycles equipped to transport materials, goods or passengers.

Task statement

Tasks include:

- (a) driving and tending motor cycle or motorized tricycle to transport materials, goods and passengers;
- (b) observing traffic rules and signals;
- (c) cleaning and washing vehicle as well as performing maintenance and minor repairs;
- (d) keeping a record of journeys;
- (e) delivering messages.

Included occupations

Examples of the occupations classified here:

- Dispatch rider
- Driver, auto rickshaw
- Motor-cyclist
- Driver, motorized tricycle

Excluded occupations

Some related occupations classified elsewhere:

Driver, pedal vehicle - 9331

Notes

ISCO 08 Code**8322****Title EN****Car, taxi and van drivers****Lead Statement**

Car, taxi and van drivers drive and tend motor cars and vans to transport passengers, mail or goods.

Task statement

Tasks include:

- (a) driving and tending passenger, vans, cars or taxis;
- (b) driving and tending cars, vans or small trucks to deliver mail or goods;
- (c) assisting passengers with handling of luggage;
- (d) collecting fares, payments for deliveries, or documents certifying deliveries;
- (e) operating telecommunications equipment to report location and availability and follow directions of control centre;
- (f) determining most appropriate route;
- (g) assisting physically challenged passengers;
- (h) operating equipment to facilitate the loading and unloading of physically challenged passengers.

Included occupations

Examples of the occupations classified here:

- Driver, car
- Driver, taxi
- Driver, van

Excluded occupations

Bus Driver - 8331

Heavy truck Driver - 8332

Auto-rickshaw Driver - 8321

Notes

ISCO 08 Code

833

Title EN

Heavy truck and bus drivers

Lead Statement

Heavy truck and bus drivers drive and tend heavy trucks, lorries, buses or street tramcars to transport goods, liquids, heavy materials, mail or passengers.

Task statement

Tasks performed usually include: driving and tending heavy trucks, lorries, buses or street tramcars in order to transport goods, liquids, heavy materials, mail or passengers.

Included occupations

Excluded occupations

Notes

ISCO 08 Code

8331

Title EN

Bus and tram drivers

Lead Statement

Bus and tram drivers drive and tend buses or street tramcars to transport passengers, mail or goods.

Task statement

- (a) driving and tending motor bus, trolley bus or motor coach to transport local or long-distance passengers, mail or goods;
- (b) driving and tending street tramcar transporting passengers;
- (c) opening and closing doors before or after passengers board or alight;
- (d) assisting passengers with luggage;
- (e) controlling lighting, heating and ventilation on buses and trams;
- (f) observing traffic to ensure safe progress;
- (g) collecting fares or verifying passenger has necessary ticket.

Included occupations

Examples of the occupations classified here:

- Bus driver
- Tram driver
- Motor coach driver

Excluded occupations

Notes

ISCO 08 Code**8332****Title EN****Heavy truck and lorry drivers****Lead Statement**

Heavy-truck and lorry drivers drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.

Task statement

Tasks include:

- (a) driving and tending a heavy motor vehicle, such as a lorry with or without trailer or a dump-truck, to transport goods, liquids or heavy materials over short or long distances;
- (b) determining the most appropriate routes;
- (c) ensuring goods are stowed and securely covered, to prevent loss and damage;
- (d) assisting with or carrying out loading or unloading operations, using various lifting or tipping devices;
- (e) carrying out minor maintenance to vehicles, and arranges major maintenance and repairs;
- (f) estimating weights to comply with load limitations, and ensuring the safe distribution of weights.

Included occupations

Examples of the occupations classified here:

- Driver, truck/heavy
- Operator, shuttle-car/mine

Excluded occupations

Driver, van - 8322

Notes

ISCO 08 Code**8344****Title EN****Lifting truck operators****Lead Statement**

Lifting-truck operators drive, operate and monitor lifting-truck or similar vehicle to transport, lift and stack pallets with goods.

Task statement

Tasks include:

- (a) operating and monitoring lifting-truck and similar equipment to load and unload, transport, lift and stack goods and pallets in terminals, harbours, ware-houses, factories and other establishments;
- (b) positioning lifting devices under, over, or around loaded pallets, skids and boxes, and securing material or products for transport to designated areas;
- (c) inspecting equipment to identify wear and damage;
- (d) performing routine maintenance on vehicles and equipment;
- (e) keeping records of work undertaken and breakdowns of vehicles.

Included occupations

Examples of the occupations classified here:

- Truck/forklift Operator

Excluded occupations**Notes**

ISCO 08 Code**835****Title EN****Ships' deck crews and related workers****Lead Statement**

Ship's deck crews and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.

Task statement

Tasks performed usually include: standing look-out watches at sea and when entering or leaving harbour or other narrow waters; steering ship according to instructions; handling ropes and wires, and operating mooring equipment; maintaining and, in some cases, operating ship's equipment, cargo gear, rigging, life-saving and fire-fighting appliances; performing deck and hull cleaning, scraping, painting and other maintenance duties as required; breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear.

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

ISCO 08 Code**8350****Title EN****Ships' deck crews and related workers****Lead Statement**

Ship's deck crews and related workers carry out deck duties on board ship and similar duties on board other water-borne craft.

Task statement

Tasks include:

- (a) standing look-out watches at sea and when entering or leaving harbour or other narrow waters;
- (b) steering ship according to instructions;
- (c) handling ropes and wires, and operates mooring equipment;
- (d) maintaining and, in some cases, operating ship's equipment, cargo gear, rigging, life-saving and fire- fighting appliances;
- (e) performing deck and hull cleaning, scraping, painting and other maintenance duties as required;
- (f) breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear.

Included occupations

Examples of the occupations classified here:

- Boatswain
- Hand, ferry
- Hand, tug
- Sailor
- Seaman, able
- Seawoman, able

Excluded occupations**Notes**

ISCO 08 Code**933****Title EN****Transport and storage labourers****Lead Statement**

Transport and storage labourers propel cycles and similar vehicles to transport passengers or goods, drive animal-drawn vehicles to transport passengers or goods, drive animal-drawn machinery, carry out freight handling by hand, and stock shelves and display areas in stores.

Task statement

Tasks performed usually include: propelling cycles and similar vehicles to transport passengers or goods, driving animal-drawn vehicles to transport passengers or goods, driving animal-drawn machinery, carrying out freight handling by hand, and stocking shelves and display areas in stores.

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

ISCO 08 Code

9331

Title EN

Hand and pedal vehicle drivers

Lead Statement

Hand or pedal vehicle drivers propel cycles and similar vehicles to transport passengers or goods.

Task statement

Tasks include:

- (a) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
- (b) moving vehicle in the desired direction with due regard to other traffic and traffic regulations;
- (c) inspecting vehicle components to identify wear and damage;
- (d) maintaining vehicle, making minor repairs and installing replacement parts;
- (e) collecting fares or charges.

Included occupations

Examples of the occupations classified here:

- Driver, pedal vehicle
- Driver, cycle rickshaw
- Puller, rickshaw

Excluded occupations

Some related occupations classified elsewhere:

Racer, bicycle - 3421

Rider, motor cycle - 8321

Notes

ISCO 08 Code**9332****Title EN****Drivers of animal-drawn vehicles and machinery****Lead Statement**

Drivers of animal-drawn vehicles and machinery drive animal-drawn vehicles to transport passengers or goods, as well as animal-drawn machinery usually in connection with farming.

Task statement

Tasks include:

- (a) harnessing animals and hitching them to vehicles or machinery;
- (b) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
- (c) driving animals in the desired direction with due regard to other traffic and traffic regulations;
- (d) collecting fares or charges;
- (e) driving animals to haul wagons in mines or quarries;
- (f) driving animals hitched to farm or other machinery;
- (g) driving working elephants;
- (h) maintaining vehicle or machinery, making minor repairs and installing replacement parts;
- (i) grooming and feeding animals.

Included occupations

Examples of the occupations classified here:

- Driver, animal-drawn vehicle
- Driver, animal train
- Mahout

Excluded occupations

Some related occupations classified elsewhere:

Jockey - 3421

Notes

ISCO 08 Code
9333
Title EN
Freight handlers

Lead Statement

Freight handlers carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.

Task statement

Tasks include:

- (a) packing office or household furniture, machines, appliances and related goods to be transported
- (b) from one place to another;
- (c) carrying goods to be loaded on or unloaded from vans, trucks, wagons, ships, or aircraft;
- (d) loading and unloading grain, coal, sand and similar goods by placing them on conveyor-belts, pipes, etc.;
- (e) connecting hoses between main shore installation pipes and tanks of barges, tankers and other ships to load and unload petroleum, liquefied gases and other liquids;
- (f) carrying and stacking goods in warehouses and similar establishments;
- (g) sorting cargo prior to loading and unloading;
- (h) supervising other workers.

Included occupations

Examples of the occupations classified here:

- Handler, freight

Excluded occupations

Some related occupations classified elsewhere:

- Crane operator - 8343
- Operator, truck/lifting - 8344

Notes

ISCO 08 Code**9334****Title EN****Shelf fillers****Lead Statement**

Shelf fillers stock shelves and display areas and keep stock clean and in order in supermarkets and other retail and wholesale shops.

Task statement

Tasks include:

- (a) placing goods neatly in bins and on racks, and stacking bulky goods on floors;
- (b) filling shelves with goods ensuring goods with the earliest use-by dates are at the front of shelves;
- (c) removing goods with past due use-by dates;
- (d) maintaining shelf order by removing stock belonging in a different location;
- (e) noting what has been sold and collecting goods needed from the stockroom;
- (f) obtaining articles for customers from shelf or stockroom;
- (g) directing customers to location of articles sought;
- (h) receiving, opening, unpacking, and inspecting for damage merchandise from manufacturer or distributor.

Included occupations

Examples of the occupations classified here:

- Filler, stock
- Handler, stock

Excluded occupations

Some related occupations classified elsewhere:

Notes