



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 Mechanical*

DEPARTMENT OF STATISTICS

ISCO-08 Draft Definitions - Mechanical

Issues for further consideration

Avionics Technicians have not been explicitly included in unit group 7232, Aircraft engine mechanics and repairers –this group, as the job title may refer to some jobs that should properly be classified in 3113, Electronics engineering technicians or 3155, Air traffic safety electronics technicians. (See for example <http://online.onetcenter.org/link/summary/49-2091.00>).

There are variations in the way national classification systems deal with this group. Some tasks have been included in the definition of 7232 that relate to the installation and connection of electronic components. This is analogous to including mechatronics service technicians 7231, Motor vehicle mechanics and repairers.

Any advice on the treatment of those involved in the maintenance, repair and installation of avionics systems and components would be appreciated.

Minor group 723

Title EN

Machinery mechanics and repairers

Lead Statement

Machinery mechanics and repairers fit, install, maintain and repair engines, vehicles, agricultural or industrial machinery and similar mechanical equipment.

Task statement

Tasks performed usually include: fitting, installing, maintaining and repairing engines, vehicles, agricultural or industrial machinery and similar mechanical equipment.

Included occupations

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

7231 Motor vehicle mechanics and repairers

7232 Aircraft engine mechanics and repairers

7233 Agricultural and industrial machinery mechanics and repairers

7234 Bicycle and related repairers

Excluded occupations

Notes

Occupations are classified in Major group 8, Plant and machine operators and assemblers, if the tasks call mainly for experience with and an understanding of the machinery operated and monitored.

Occupations are classified in Major group 9, Elementary occupations, if the tasks are of a simple and routine nature, mainly entail the use of hand-held tools, some physical effort, little or no previous experience and understanding of the work and limited initiative or judgement.

ISCO 88 Code(s)

723

Unit group 7231

Title EN

Motor vehicle mechanics and repairers

Lead Statement

Motor vehicle mechanics and repairers fit, install, maintain, service and repair engines and the mechanical and related equipment of passenger cars, delivery trucks, motorcycles and other motor vehicles.

Task statement

Tasks include:

- (a) detecting and diagnosing faults in engines and parts;
- (b) fitting, examining, testing and servicing motor vehicle and motorcycle engines;
- (c) replacing engine components or complete engines;
- (d) fitting, examining, adjusting, dismantling, rebuilding and replacing defective parts of motor vehicles;
- (e) installing or adjusting motors and brakes, and adjusting steering or other parts of motor vehicles;
- (f) installing, adjusting, servicing and replacing mechatronics components of motor vehicles;
- (g) performing scheduled maintenance services, such as oil changes, lubrications and engine tune-ups, to achieve smoother running of vehicles and ensure compliance with pollution regulations;
- (h) reassembling engines and parts after being repaired.

Included occupations

Examples of the occupations classified here:

- Automotive brakes systems service technician
- Diesel fitter (road transport)
- Engine fitter (motor vehicle)
- Garage mechanic
- Motor cycle mechanic
- Motor vehicle engine and fuel systems service technician
- Motor vehicle mechanic
- Motor vehicle mechatronics service technician
- Motor vehicle repairer
- Motor vehicle service technician
- Small engine mechanic

Excluded occupations

Some related occupations classified elsewhere:

- Bicycle repairer - 7234
- Engine/motor vehicle assembler - 8211

Notes

ISCO 88 Code(s)

7231, part

Unit group 7232

Title EN

Aircraft engine mechanics and repairers

Lead Statement

Aircraft engine repairers and mechanics fit, service, repair and overhaul aircraft engines and assemblies, such as airframes, hydraulic, and pneumatic systems.

Task statement

Tasks include:

- (a) fitting, examining, testing and servicing aircraft engines;
- (b) replacing engine components or complete engines;
- (c) examining and inspecting airframes and aircraft components, including landing gear, hydraulic systems, and deicers to detect wear, cracks, breaks, leaks, or other problems;
- (d) maintaining, repairing, overhauling, modifying and testing aircraft structural, mechanical and hydraulic systems;
- (e) reading and interpreting manuals, service bulletins, and other specifications to determine the feasibility and method of repairing or replacing malfunctioning or damaged components;
- (f) maintaining, repairing, and rebuilding aircraft structures, functional components, and parts such as wings and fuselage, rigging, hydraulic units, oxygen systems, fuel systems, electrical systems, gaskets, and seals;
- (g) inspecting completed work to certify that maintenance meets standards and the aircraft is ready for operation;
- (h) maintaining repair logs, documenting all preventive and corrective aircraft maintenance;
- (i) installing and testing electrical and electronic components, assemblies, and systems in aircraft;
- (j) connecting components to assemblies such as radio systems, instruments, magnetos, inverters, and in-flight refueling systems;

Included occupations

Examples of the occupations classified here:

- Aircraft engine fitter
- Aircraft maintenance engineer
- Aircraft maintenance supervisor
- Aircraft mechanic
- Aircraft restorer
- Aircraft service technician,
- Airframe and power plant mechanic
- Airframe mechanic;
- Aviation maintenance technician,
- Helicopter mechanic
- Jet engine mechanic
- Pneudraulic systems mechanic (aircraft)
- Powerplant mechanic (aircraft)
- Rocket engine component mechanic

Excluded occupations

Some related occupations classified elsewhere:

- Aircraft engine assembler- 8211

Notes

ISCO 88 Code(s)

7232

Unit group 7233

Title EN

Agricultural and industrial machinery mechanics and repairers

Lead Statement

Agricultural and industrial machinery mechanics and repairers fit, install, examine, service and repair engines (except motor vehicle and aircraft engines and electric motors), agricultural or industrial machinery and mechanical equipment.

Task statement

Tasks include:

- (a) fitting, installing, examining, servicing and repairing engines (except motor vehicle and aircraft engines), agricultural or industrial machinery and mechanical equipment;
- (b) oiling and greasing stationary engines, machinery and vehicles;
- (c) inspecting and testing new machinery and mechanical equipment for conformity with standards and specifications;
- (d) disassembling machinery and equipment to remove parts and make repairs;
- (e) examining parts for defects such as breakage and excessive wear;
- (f) operating newly repaired machinery and equipment to verify the adequacy of repairs;
- (g) recording repairs and maintenance performed.

Included occupations

Examples of the occupations classified here:

- Air-conditioning equipment mechanic
- Construction machinery mechanic
- Construction machinery repairer
- Farm machinery repairer
- Mining machinery fitter
- Mining machinery repairer
- Stationary engine fitter
- Stationary engine repairer
- Train engine fitter
- Train engine repairer

Excluded occupations

- Some related occupations classified elsewhere:
- Electrical mechanic - 7412
- Mechanical machinery assembler- 8211

Notes

ISCO 88 Code(s)

7233

Unit group 7234

Title EN

Bicycle and related repairers

Lead Statement

Bicycle and related repairers fit, maintain, service and repair the mechanical and related equipment of bicycles, "rickshaws", baby carriages, wheelchairs and similar non-motorized transport equipment.

Task statement

Tasks include:

- (a) examining, servicing and repairing bicycles and other non-motorized transport equipment;
- (b) cleaning and lubricating bearings and other moving parts;
- (c) replacing and repairing components and accessories, such as brakes, driving chain mechanism, wheels, handle bars etc.;
- (d) changing tyres and controlling air pressure;
- (e) spray painting frames;
- (f) assembling new bicycles, wheelchairs and similar non-motorized equipment.

Included occupations

- Bicycle mechanic
- Bicycle repairer
- Perambulator mechanic
- Perambulator repairer
- Wheelchair mechanic
- Wheelchair repairer

Excluded occupations

Notes

ISCO 88 Code(s)

7231, part