



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 Electrical*

ISCO 08 Code**741****Title EN****Electrical equipment installers and repairers****Lead Statement**

Electrical equipment installers and repairers install, fit, maintain electrical wiring systems and related equipment, electrical machinery and other electrical apparatus and electrical transmission and supply lines and cables.

Task statement

Tasks performed usually include: installing, maintaining, fitting and adjusting electrical wiring systems, machinery and equipment; examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation; inspecting and testing electrical systems, equipment, cables and machinery to identify hazards, defects, and the need for adjustment or repair; installing maintaining and repairing electrical transmission lines; joining electrical cables.

Included occupations

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

- 7411 Building and related electricians
- 7412 Electrical mechanics and fitters
- 7413 Electrical line installers and repairers

Excluded occupations**Notes****Comments****ISCO 88 Code(s)**

ISCO 08 Code**7411****Title EN****Building and related electricians****Lead Statement**

Building and related electricians install, maintain and repair electrical wiring systems and related equipment and fixtures.

Task statement

Tasks include:

- (a) installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings and other structures;
- (b) examining blueprints, wiring diagrams and specifications to determine sequences and methods of operation;
- (c) planning layout and installation of electrical wiring, equipment and fixtures, based on job specifications and relevant standards;
- (d) inspecting electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair
- (e) selecting, cutting and connecting wire and cable to terminals and connectors;
- (f) measuring and laying out installation reference points;
- (g) positioning and installing electrical switchboards;
- (h) testing continuity of circuit.

Included occupations

Examples of the occupations classified here:

- Electrician
- Building repairs electrician

Excluded occupations

Some related occupations classified elsewhere:

- Electrical fitter - 7412
- Electrical mechanic - 7412

Notes**ISCO 88 Code(s)**

7137

ISCO 08 Code**7412****Title EN****Electrical mechanics and fitters****Lead Statement**

Electrical mechanics and fitters fit, adjust, install and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops, or other places.

Task statement

Tasks include:

- (a) fitting, adjusting and repairing various kinds of electrical machinery and motors, generators, switchgear and control apparatus, instruments, or electrical parts of elevators and related equipment;
- (b) fitting, adjusting and repairing electrical parts in domestic appliances, industrial machines and other appliances;
- (a) inspecting and testing manufactured electrical products;
- (c) installing, testing, connecting, commissioning, maintaining and modifying electrical equipment, wiring and control systems;
- (d) designing, installing, maintaining, servicing and repairing electric and hydraulic passenger and freight lifts, escalators, moving walkways and other lift equipment;
- (e) connecting electrical systems to power supply;
- (f) replacing and repairing defective parts.

Included occupations

Examples of the occupations classified here:

- Armature builder
- Electrical generator fitter
- Electrical mechanic
- Lift mechanic

Excluded occupations

Some related occupations classified elsewhere:

- Electronics mechanic – 7421
- Electrical equipment assembler – 8212

Notes**ANZSCO****ISCO 88 Code(s)****7241**

ISCO 08 Code**7413****Title EN****Electrical line installers and repairers****Lead Statement**

Electrical line installers, repairers and cable jointers install, repair and join electrical transmission and supply cables and related equipment.

Task statement

Tasks include:

- (a) installing and repairing overhead and underground electrical power and electrical traction lines;
- (b) making joints in overhead and underground cables;
- (c) adhering to safety practices and procedures, such as checking equipment regularly and erecting barriers around work areas ;
- (d) opening switches or attaching grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs;
- (e) climbing poles or using truck-mounted buckets to access equipment;
- (f) identifying defective sectionalizing devices, circuit breakers, fuses, voltage regulators, transformers, switches, relays, or wiring, using wiring diagrams and electrical-testing instruments.

Included occupations

- Examples of the occupations classified here:
- Electric cable jointer
- Electric power line worker

Excluded occupations

Some related occupations classified elsewhere:

- Cabler, data and telecommunications - 7422
- Telecommunications line worker - 7422

Notes**ISCO 88 Code(s)**

7245 part