

7241 Electricians

Electricians in this unit group layout, assemble, install, test, troubleshoot and repair electrical wiring, fixtures, control devices and related equipment in buildings and other structures. They are employed by electrical contractors and maintenance departments of buildings and other establishments, or they may be self-employed.

Example Titles

Apprentice Electrician
Construction Electrician
Construction Electrician Apprentice
Domestic and Rural Electrician
Electrician

Main Duties

Electricians in this unit group perform some or all of the following duties:

- Read and interpret drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations;
- Pull wire through conduits and through holes in walls and floors;
- Install brackets and hangers to support electrical equipment;
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels;
- Splice, join and connect wire to fixtures and components to form circuits;
- Test continuity of circuits using test equipment to ensure compatibility and safety of system, following installation, replacement or repair;
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components;
- Connect electrical power to audio and visual communication equipment, signaling devices and heating and cooling systems;
- Conduct preventive maintenance programs and keep maintenance records.

Employment Requirements

- Completion of secondary school is usually required.
- Completion of a four- to five-year apprenticeship program is usually required.
- Trade certification for construction electricians is compulsory in Newfoundland, Nova Scotia, Prince Edward Island, New Brunswick,

Workaholiks *Global Human Resources Ltd.*

Quebec, Ontario, Saskatchewan, Alberta, British Columbia, the Northwest Territories and the Yukon, and available, but voluntary, in Manitoba.

- Trade certification for electricians (domestic and rural) is mandatory in Quebec and Ontario, and available, but voluntary, in Newfoundland.
- Interprovincial trade certification (Red Seal) is also available to qualified construction electricians.

Additional Information

- Progression to supervisory positions is possible with experience.
- Red Seal trade certification allows for inter-provincial mobility.

Classified Elsewhere

- Electrical Mechanics (7333)
- Industrial Electricians (7242)
- Power System Electricians (7243)
- Supervisors of Electricians (in 7212 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations)

Other Titles

Apprentice Construction Electrician
Apprentice Electrician
Apprentice Electrician, Construction
Building Construction Electrician
Building Electrician
Construction and Maintenance Electrician
Construction Electrician
Construction Electrician Apprentice
Domestic and Rural Electrician
Electrical Fixtures Installer
Electrical Wirer, Construction
Electrical Wiring Installer - Construction
Electrician
Electrician - Military

Electrician - troubleshooter
Electrician, Building Construction
Electrician, Construction and Maintenance
Electrician, Institution
Journeyman Construction Electrician
Journeyman/woman Construction Electrician
Journeywoman Construction Electrician
Residential Construction Wirer
Residential Wireman
Residential Wireman/Woman
Residential Wirewoman
Wirer, Residential Construction
Wiring Electrician

Courtesy of NOC