



Electricians (except industrial and power system)

**Construction
NOC 7241**





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WHO ARE THEY?

Electricians in this unit group lay out, assemble, install, test, troubleshoot and repair electrical wiring, fixtures, control devices and related equipment in buildings and other structures.



WHERE THEY WORK

They are employed by electrical contractors and maintenance departments of buildings and other establishments, or they may be self-employed.

MAIN 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

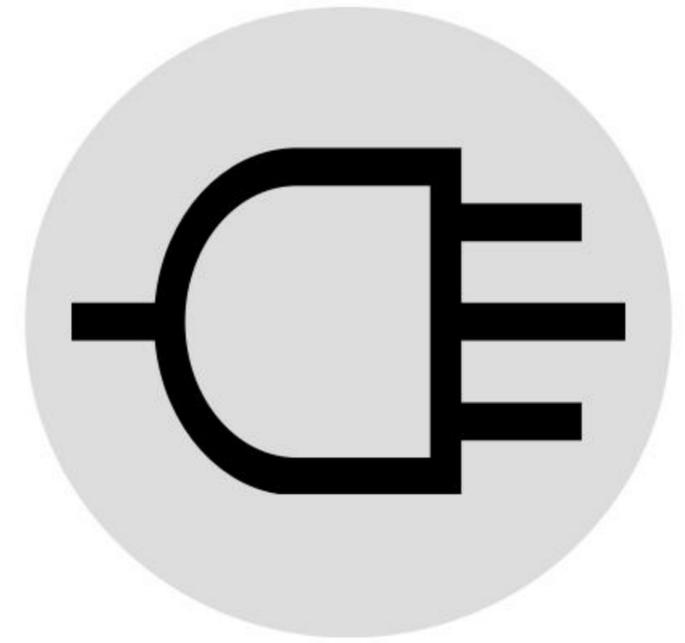
Install brackets and hangers to support electrical equipment

Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels

Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components

Connect electrical power to audio and visual communication equipment, signalling devices and heating and cooling systems

Conduct preventive maintenance programs and keep maintenance records.



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

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 and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta and available, but voluntary, in British Columbia, the Yukon, the Northwest Territories and Nunavut.

Trade certification for electricians (domestic and rural) is compulsory in Newfoundland and Labrador and Ontario.

Trade certification for electrical control (machine) builders is available, but voluntary, in Ontario.

Red Seal endorsement is also available to qualified construction electricians upon successful completion of the interprovincial Red Seal examination.



Four County
Labour Market Planning Board

Serving Bruce Grey Huron Perth

Source: Statistics Canada 2011