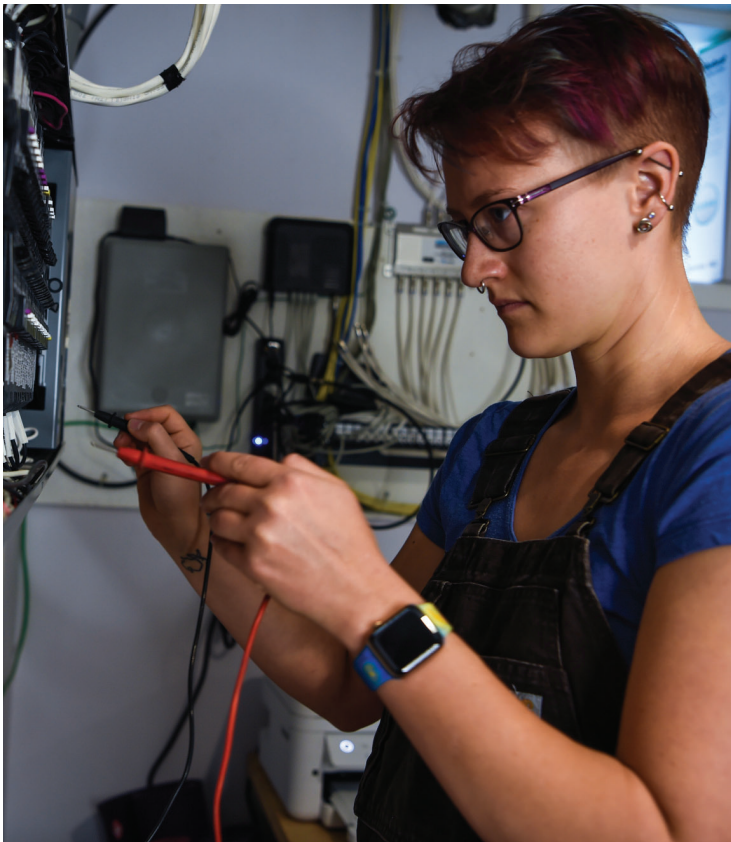




Construction Electrician

About this job

Electricians provide a critical service, installing, servicing, and maintaining the safety of some of the most important systems in our communities. The trade includes a variety of types of worksites, and electricians may work independently or as part of a team.



CONSTRUCTION ELECTRICIAN FALLS UNDER NATIONAL OCCUPATION CLASSIFICATION (NOC) CODE #7241/72200



- Four-year program
- Red Seal Certificate
- Requires out of the territory technical training
- Aurora College
- High Demand Job
- Construction

\$102,779

Estimated Average Journeyperson Salary

APPRENTICESHIP, TRADES, AND OCCUPATIONAL CERTIFICATION

Aussi disponible en français

What can I expect to do for work if I become a Construction Electrician?

Electricians install, alter, repair and maintain electrical systems designed to provide heat, light, power, control, and signals to all types of buildings and structures. Duties may include:

- read and interpret electrical, mechanical and architectural drawings, specifications, and applicable codes to determine wiring layouts,
- cut, thread, bend, assemble and install conduits and other types of electrical conductor enclosures and fittings,
- pull wire through conduits and holes in walls and floors,
- position, maintain and install distribution and control equipment such as switches, relays, circuit breaker panels and fuse enclosures,
- install data cabling, fibre optic systems, electrical systems, and electrical equipment,
- splice, join, connect wire and test circuits to ensure integrity and safety,
- install, replace, maintain and repair electrical generation sources and related equipment, and
- may specialize in renewable energy (eg. wind/solar).

What kind of working conditions can I expect?

Electricians usually work a 40-hour, five-day week plus overtime when required. Some types of work may be considered seasonal work. Working conditions change dramatically from one job to another, varying from indoors in clean conditions to outdoors on scaffolding, and to confined and restricted locations. Jobs may be located in residential, commercial, institutional or industrial settings. Safe work practices are essential.

Eligibility Requirements

Entrance Exam – Pass Exam 5 with a score of 70% or higher
or

Completion of the following high school courses

- English 20-2 (pass) or Literacy 30 (pass)
- Math 10C (pass)
- Science 10 (pass)

or

All five Canadian General Educational Development (GED) tests

SCHOOLS NORTH APPRENTICESHIP PROGRAM (SNAP) - SNAP apprentices are not required to satisfy the entrance requirements prior to signing an apprenticeship contract. However, the SNAP apprentice must satisfy the entrance requirements or write the TEE before attending technical training.

What are some skills that are valued in this profession?

The work is most rewarding for those who enjoy learning new and emerging technologies, and doing precise work that sometimes requires creativity.

- good communication, reading skills, math, problem solving, planning, and computer skills,
- mechanical ability, strength and manual dexterity to carry out precise work,
- the ability to distinguish colours to work with colour-coded wiring,
- the ability to work at heights,
- the ability to use proper lifting techniques,
- the ability to get along well with co-workers, coach, and mentor,
- the willingness to keep up with new developments in the field.

What is the minimum requirement to become an apprentice in this trade?

Apprentices must obtain a minimum of 70% on the Trades Entrance Exam – TEE Category #2 or the equivalent education as outlined below. This must be done before signing the contract and attending technical training.

How long will it take to complete a Construction Electrician apprenticeship?

An apprenticeship takes about four years to complete and includes four on the job periods and four technical training periods. You need to complete 1800 hours per period, for a total of 7200 hours.

How long is technical training?

Apprentices will attend 1080 technical training hours. Apprentices go to school for this program for the first three periods in the Northwest Territories followed by the final block in **Alberta**.

Period	Technical Training ¹	Prerequisites for technical training	Hours ²
1st	8 Weeks 240 hours	Entrance Exam and 900 hours	1800
2nd	8 Weeks 240 hours	Completed 1 st Period	3600
3rd	8 Weeks 240 hours	Completed 2 nd Period	5400
4th	12 Weeks 360 hours	Completed 3 rd Period	7200

¹Length of In-School Training

²Minimum Time Required to Complete (Includes Technical Training)

For more information:

www.gov.nt.ca/Apprenticeship