

CAREER PROFILES

Electricians (except industrial and power system):

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

Wage/Salary Information:

\$39,000 is the median annual salary found in local job-postings.

\$29.62/hour is the median wage reported locally.

Commonly Listed Skills in Job Postings:

- Mathematics
- Communication
- Reading
- Manual dexterity
- Planning
- Organization
- Management
- Work independently
- Self-motivated
- Problem solving
- Precision work
- Computer skills

Job Duties:

Electricians read and interpret drawings, circuit diagrams, and electrical code specifications to determine wiring layouts for new or existing installations. Electricians install brackets and hangers to support electrical equipment and install, replace, and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays, and circuit breaker panels. They test continuity of circuits using test equipment to ensure compatibility and safety

of system, following installation, replacement, or repair. Electricians also troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components.

Working Conditions:

Workers are usually indoors, though the work area can often be noisy and dirty.

Work may take place from heights or in confined spaces, and may require lifting of heavy objects. Safety is a big concern and precautions are followed to reduce the risks of injury from accidental electric shocks and falls from heights.

Career Pathways:

As with many trades, apprentices are often chosen from a company's current employees, such as construction labourers. Experienced electricians can advance to supervisory positions as foremen, superintendents, estimators, or electrical inspectors. Some experienced electricians may choose to start their own contracting business.

Electricians (except industrial and power system) are employed by electrical contractors and maintenance departments of buildings and other establishments, or they may be self-employed. Below are potential career pathways for electricians (except industrial and power system):

- Apprentice Electrician
- Building Electrician
- Construction Electrician
- Domestic and Rural Electrician
- Electrical Fixtures Installer
- Residential Construction Wirer
- Wiring Electrician

Check out more possible career pathways on [WEexplore](#).

Education and Training Pathways:

If you're interested in becoming an electrician (except industrial and power system), you can begin your apprenticeship or attend a local training/education program.

Apprenticeship Details:

Electrician – Construction and Maintenance

- Certification: Compulsory (required to practice this profession in Ontario)
- Red Seal: Yes

- Training: 9,000 hours of combined on-the-job and in-class technical training
- In-class training: 840 hours

Electrician – Domestic and Rural

- Certification: Compulsory (required to practice this profession in Ontario)
- Red Seal: Yes
- Training: 7,200 hours of combined on-the-job and in-class technical training
- In-class training: 540 hours

Individuals interested in pursuing an apprenticeship pathway, should follow these steps:

- 1) Get hired – by an employer/sponsor/union
- 2) Apply online to register as an apprentice at www.ontario.ca/page/start-apprenticeship
- 3) Sign a training agreement with your employer/sponsor and the Employment Ontario apprenticeship office.
- 4) Become a Member of the Ontario College of Trades Apprentices Class at www.collegeoftrades.ca/membership
- 5) Keep a record of the hours you work
- 6) Achieve the competencies listed in your training standard if required in your trade
- 7) Complete all of the training requirements in your trade and you will receive a Certificate of Apprenticeship (CoA).
- 8) Write the Exam for the Certificate of Qualification if required in your trade

If you are currently in high school and would like to begin an apprenticeship, visit oyap.com for more information about the Ontario Youth Apprenticeship Program.

Individuals unsure about whether to pursue an apprenticeship or not, can learn more by visiting www.ontario.ca/page/prepare-apprenticeship

St. Clair College:

Electrical Techniques

Admission Requirements:

- OSSD with the majority of courses at the College (C), University (U), University/College (M), or Open (O) level;
- Grade 11 Math must be (C) or (U) level Math:

Academic Credential: Ontario College Certificate – One Year

Professional Certification: May be granted level 1 in school Electrical Apprenticeship training with approval from the Employer, upon graduation

Attendance: In-person

Full-time or Part-time: Full-time

Program Length: 1 year – 2 semesters

Program Cycle: Intake Fall and Winter

Program Cost: \$4,464.61

OSAP Eligible: Yes

Location: 2000 Talbot Road West, Windsor, ON, N9A 6S4

For more information on this program, please visit:

http://www.stclaircollege.ca/programs/postsec/elec_techniques/

***Disclaimer:** The educational institution reserves the right to change information without notice, and may result in discrepancies between their information and the information presented above. If any errors are found, please report them to info@workforcewindsorsex.com.*