

# CONSTRUCTION

# NOC 7241

## DOMESTIC AND RURAL ELECTRICIAN (T.Q.A.A., compulsory certified trade, branch 1)

### WORK DESCRIPTION

*What would I be doing?*

Domestic and Rural Electricians perform numerous tasks in construction, repair, and renovation of residential and farm buildings:

- lay out, assemble, install, repair, maintain, connect or test electrical systems,
- plan installations from blueprints, interpret specifications, and install all electrical and electronic devices,
- diagnose faults in electrical systems and components,
- measure, cut threads, bend, assemble and install conduits and other conductor enclosures,
- splice and terminate electrical conductors,
- test electrical and electronic equipment for proper function

In general, Domestic and Rural Electricians work days. They may work overtime to finish a project, especially on construction jobs. The work involves lifting and physical strength. Electricians must pay close attention to safety because the work presents many hazards. Electricians work both indoors and outdoors.

### PLACE OF WORK

*Who needs electricians?*

- private home owners,
- self employed.

### CONDITIONS OF WORK

**Domestic and Rural Electrician is a compulsory certified trade.**

A person must have a valid Certificate of Qualification or be registered as an apprentice to work in the trade. Under TQAA, for **compulsory Trades**, the Cooperative Education student **may be a registered apprentice and may be paid** according to the Regulations.

### SALARIES/WAGES

The salary of the Domestic and Rural Electricians depends on the employer. In unionized places the wages and conditions of work are negotiated collectively. The rate of wages for an apprentice is a specified percentage of a journeyperson's wage according to experience and level of training.

***In the Elgin, Middlesex and Oxford area, Domestic and Rural Electricians can earn \$ 15.15 - \$ 25.03 per hour, averaging \$ 23.31 per hour.***

(Next)

## PROSPECTS of EMPLOYMENT in the Elgin, Middlesex and Oxford area

### RATING: *fair*

It is highly recommended that anyone interested in the Domestic and Rural Electrician trade to investigate the Construction Electrician Trade.

## APPRENTICESHIP IN THE DOMESTIC AND RURAL ELECTRICIAN TRADE

- takes 3 to 4 years or 7 200 h, including 540 h of in-school training; prior education and experience may shorten the time to complete all the competencies,
- must pass the Certificate of Qualification exam to receive both a Certificate of Apprenticeship and a Certificate of Qualification with journeyman status,
- Interprovincial Trade Certification (Red Seal) is **not** available.

### In-School Education:

An OYAP student must be 16 years old and have completed Grade 10 (or equivalent). Otherwise, Grade 10 is the minimum requirement, however, completion of Grade 12 (OSSD) is advantageous. The following competencies are valuable:

English, *Communication and*  
Mathematics, *planning skills,*  
Physics, *problem solving*

Design Technology (Drafting),  
Construction Technology.

OYAP students must be full-time students in high school and those who obtain apprenticeships will complete the apprenticeship curriculum in college or an approved Training Delivery Agent.

*Specific skills learned in school are: safety, electric code, trade calculations, blueprints and installations, estimating, hand tools, trade communication, construction layouts,*

*electrical-electronic theory, installation methods, fire alarm and building systems, instrumentation, drive systems, electrical equipment maintenance, control systems, power distribution.*

### On the Job Training

- As a high school Cooperative Education credit (towards O.S.S.D.), learning is connected to one of the school subjects.
- The apprentices must follow a program in the **Apprenticeship Training Standards** book which is given to them in the workplace when they register. As each competency is achieved the employer signs it off.

## OPPORTUNITY TO GROW

A Certificate as a journeyman or a registration as an apprentice is required to start working in the electrical trade. After becoming a journeyman an Electrician may:

- become a foreperson or a supervisor,
- start own business as a contractor,
- work in related areas or occupations.

## RELATED OCCUPATIONS

- Power System Electrician,
- Communication Electrician,
- Power Lineworker,
- Construction and Rural Electrician.

## CONTACT INFORMATION

*Whom should I call?*

School Guidance/Co-Op Office  
Apprenticeship Office 519 675 7788  
London: 1 800 265 1050  
Apprenticeship web: [www.edu.gov.on.ca](http://www.edu.gov.on.ca)  
EMOLTB web site: [www.localboard.on.ca](http://www.localboard.on.ca)  
Training Hotline: 1 800 387 5656  
Union: