



Electrician

(excluding the specialty of security systems installer)

Description of the trade

- Constructs, overhauls, alters, repairs, and maintains electrical installations
- The installations may be used for lighting, heating, or motive power. This work includes, in all cases, wires, cables, conduits, accessories, appliances, and apparatuses that form part of the installation.

Note: Work done by electricians must meet the requirements of the different applicable standards and regulations.

ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Electricity and of a job guarantee from an employer registered with the CCQ, for at least 150 hours spread over three consecutive months. This leads to an apprentice competency certificate in the trade.
- Other programs are recognized for obtaining an apprentice competency certificate for the trade of electrician, such as the DEP in installation and maintenance of security systems and some diplomas of collegial studies (DECs).
- Measures are in place to increase the presence of women on construction sites by 2018. Consult them at mixite.ccq.org.

APPRENTICESHIP SYSTEM

- Have completed the four apprenticeship periods of 2,000 hours each (8,000 hours total) in order to be eligible for the provincial qualification examination that leads to obtaining the journeyman competency certificate for the trade.

SKILLS AND INTERESTS

- Acquire knowledge related to application of mathematical calculations, electrical engineering, and electronics, as well as reading plans and technical specifications
- Be independent and careful
- Like working alone
- Have good professional ethics
- Be able to interpret standards, solve malfunctions, and work in tight spaces
- Be in good physical condition
- Have good physical coordination

Average annual salary*

Apprentice**	\$23,931
Journeyman***	\$55,154
Journeyman working at least 500 hours	\$67,616
Proportion****	79%

* Includes premiums, overtime hours, and compensation for paid statutory holidays and the obligatory annual vacations provided in the collective agreements.
 ** Average salary of graduates admitted in 2014, for the 12 months following their admission.
 *** Average salary in 2015 of those having reported at least one hour of work.
 **** Proportion of journeymen in this trade having accumulated at least 500 hours in 2015. Does not include income that may have been made for work not falling under the construction collective agreements.

Integration into the labour market

	Annual average 2012-2015	2016
New admissions to the CCQ	973	963
Placement rate of graduates*	11.8%	n/a

* Source: *La Relance au secondaire en formation professionnelle*, survey by the Ministère de l'Éducation et de l'Enseignement supérieur du Québec. New graduates are asked about their employment situation on June 1, after they have obtained their diploma.

Hourly wage* according to the collective agreements

	Industrial, institutional and commercial	Civil engineering and roadwork	Light residential
Apprentice			
1 st period	\$19.00	\$19.01	\$17.83
2 nd period	\$22.79	\$22.81	\$21.39
3 rd period	\$26.59	\$26.61	\$24.96
4 th period	\$32.29	\$32.31	\$30.30
Journeyman	\$37.99	\$38.01	\$35.65

*Wage in May 2016.

Volume of work per sector



Job prospects



- The electrician's trade is the second largest by number of workers, with 16,080 active employees in 2016. A diploma of vocational studies is virtually mandatory to enter this trade. This trade also is among those with the largest number of women, 185 in 2016. Some 2,500 employers hire electricians.
- Construction of institutional and commercial buildings, which generates most of the hours worked by electricians, should slow in coming years. Similarly, residential construction, which provides 12% of the work volume, is expected to gradually slow. Note that electricians also perform maintenance and residential renovation.
- In 2016, 963 apprentices were admitted to the industry, very close to the annual average from 2012 to 2015 (973). The trade is subject to little seasonal variation, thus allowing a high number of annual average hours worked and thus generating an attractive annual income: in the first year, an apprentice may earn \$23,900. The 79% of journeymen who work at least 500 hours earn \$67,600 a year.
- Job prospects are quite good for electricians. Despite a small drop in demand, significant workforce turnover will create demand for new workers. Part of this need will be met, however, by workers currently available.

Training

Study program:

Diploma of vocational studies (DEP) -
Électricité (5295) and Electricity (5795)

Duration of training: 1,800 hours

Academic prerequisite: Category 1*

* The academic prerequisites for all trades and occupations in this brochure are described on page 74.

Training generally offered in the following regions:

- Abitibi-Témiscamingue
- Bas-Saint-Laurent
- Capitale-Nationale
- Centre-du-Québec
- Chaudière-Appalaches
- Côte-Nord
- Estrie
- Gaspésie-Îles-de-la-Madeleine
- Lanaudière
- Laurentides
- Laval
- Mauricie
- Montérégie
- Montréal*
- Nord-du-Québec*
- Outaouais
- Saguenay-Lac-Saint-Jean



To find out which public facilities are authorized to offer this study program, consult the website

www.inforoutefpt.org

* Training also offered in English in this region.

Number of employed workers in 2016

Abitibi-Témiscamingue	411
Bas-Saint-Laurent-Gaspésie	618
Côte-Nord	300
Estrie	538
Island of Montréal	1,878
Laval-Laurentides-Lanaudière	4,114
Mauricie-Bois-Francis	917
Montérégie	3,684
Outaouais	573
Québec	2,317
Saguenay-Lac-Saint-Jean	661
Outside of Québec and Baie-James	69
Total	16,080

Number of employed women 185

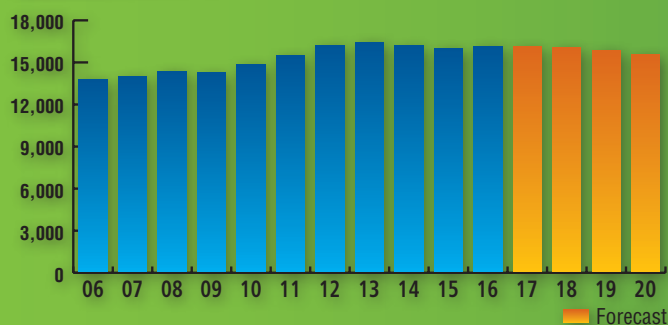
Worker mobility

Proportion of workers who travel from one region to another:*

Electrician	12%
All trades and occupations	17%

* Excluding travel between the Montérégie, Island of Montréal, and Laval-Laurentides-Lanaudière regions.

Number of employed workers from 2006 to 2020



Age of the workforce in 2016

	Average age	Under 30 years	30-54 years	55 years and over	Total number of workers
Apprentice	28	69%	29%	2%	5,021
Journeyman	42	8%	74%	18%	11,059
Total, electricians	38	31%	57%	12%	16,080
All trades and occupations	39	26%	58%	16%	153,700