



Insulator

Description of the trade

- Installs, repairs, or renovates thermal insulation systems in order to preserve the temperature of a liquid or gas
- Insulates piping systems, air ducts, and reservoirs and applies protective finishes
- Installs rigid or semi-rigid insulation

Insulators work in institutional and commercial buildings, industries, etc.

ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Calorifugeage 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.
- 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 three apprenticeship periods of 2,000 hours each (6,000 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 physics, technical drawing, working with tools and machinery
- Be careful and resourceful
- Be able to work in a team
- Be in good physical condition
- Be able to work in confined spaces, extreme temperatures and at heights.

Average annual salary*

Apprentice**	\$32,968
Journeyman***	\$60,528
Journeyman working at least 500 hours	\$69,998
Proportion****	84%

* 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 2013 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	73	36
Placement rate of graduates*	0%	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	\$22.79	\$23.00	\$21.39
2 nd period	\$26.59	\$26.83	\$24.96
3 rd period	\$32.29	\$32.58	\$30.30
Journeyman	\$37.99	\$38.33	\$35.65

*Wage in May 2016.

Volume of work per sector

Institutional and commercial 79%



Industrial 21%

Job prospects



- The number of insulators declined to 1,029 in 2016.
- These highly specialized workers are hired by 141 employers, primarily active in the industrial, institutional and commercial sectors. Activity is expected to decline in the industrial and commercial sector over the medium term but remain stable in the industrial sector.
- A total of 36 new apprentices entered the industry in 2016, a sharp decline from the annual average for the past four years (73). An apprentice insulator can expect to earn about \$33,000 during the first year of work, while a journeyman's annual income can climb to an average of \$60,500, or even \$70,000 for employees working at least 500 hours a year.
- Job prospects are quite good for insulators. There are currently many workers available in the labour market, who could meet part of the workforce need in coming years.

Training

Study program:

Diploma of vocational studies (DEP) -
Calorifugeage (5119)

Duration of training: 900 hours

Academic prerequisite: Category 2*

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

Training generally offered in the following region:

- Montréal



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

Number of employed workers in 2016

Abitibi-Témiscamingue	20
Bas-Saint-Laurent-Gaspésie	23
Côte-Nord	6
Estrie	45
Island of Montréal	102
Laval-Laurentides-Lanaudière	344
Mauricie-Bois-Francs	65
Montréal	162
Outaouais	28
Québec	172
Saguenay-Lac-Saint-Jean	61
Outside of Québec and Baie-James	1
Total	1,029

Number of employed women 50

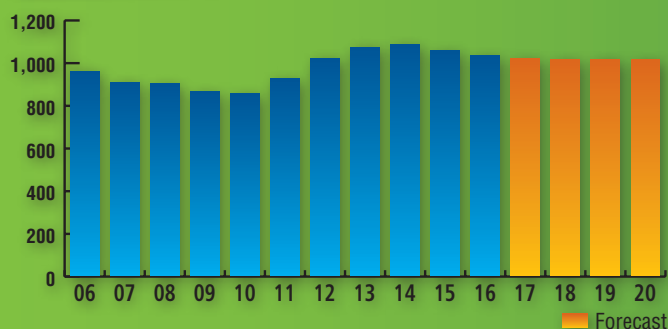
Worker mobility

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

Insulator	19%
All trades and occupations	17%

* Excluding travel between the Montréal, 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	31	53%	44%	3%	307
Journeyman	43	12%	71%	17%	722
Total, insulators	39	24%	63%	13%	1,029
All trades and occupations	39	26%	58%	16%	153,700