

Fire-protection mechanic



Description of the trade

- Installs, overhauls, alters, repairs, and maintains automatic sprinkler systems, including piping and other equipment used to prevent and fight fires
- Prepares, assembles, installs, and connects piping and accessories, and activates, verifies, and inspects systems

ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Mécanique de protection contre les incendies 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 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 concepts of mathematics, hydraulics, and electricity
- Know how to interpret plans and technical specifications
- Be independent and analytical
- Be well organized
- Be in good physical condition
- Be capable of moving heavy objects
- Be able to work on scaffolding

Average annual salary*

Apprentice**	\$34,098
Journeyman***	\$59,856
Journeyman working at least 500 hours	\$69,673
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 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	81	56
Placement rate of graduates*	n/a	n/a

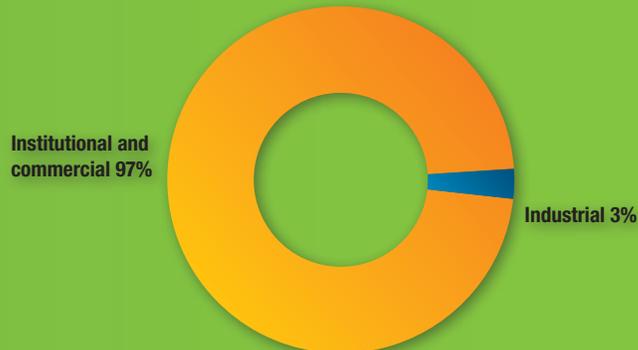
* Source: *La Relance au secondaire en formation professionnelle*, survey by the Ministère de l'Éducation et de l'Enseignement supérieur du Québec. New graduates are asked about their employment situation on June 1, after they have obtained their diploma.

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



- There were 1,151 fire-protection mechanics in 2016. This work varies little by season, allowing the workforce to log more hours. There are 131 employers hiring fire-protection mechanics, with the 10 largest accounting for more than half the work.
- The work is done primarily in the institutional and commercial sector, where work volume should decline in coming years. Regular preventive maintenance to reduce risks and the costs associated with breakdowns caused by systems increases opportunities for this trade.
- In 2016, 56 new apprentices entered the industry. They earn an average of \$34,100 the first year. Average annual income rises to \$69,700 for journeymen working at least 500 hours (84% of journeymen). Annual average hours worked are the second highest, after elevator mechanics.
- Although a slight decline in demand is forecast, job prospects remain fairly good, due to high turnover that will generate workforce demand. However, the average age of fire-protection mechanics is among the lowest in the industry, so demand to replace an aging workforce is still limited.

Training

Study program:

Diploma of vocational studies (DEP) -
Mécanique de protection contre
les incendies (5312)

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:

- Laval



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	16
Bas-Saint-Laurent-Gaspésie	24
Côte-Nord	6
Estrie	26
Island of Montréal	96
Laval-Laurentides-Lanaudière	434
Mauricie-Bois-Francs	38
Montréal	230
Outaouais	17
Québec	189
Saguenay-Lac-Saint-Jean	39
Outside of Québec and Baie-James	36
Total	1,151

Number of employed women 2

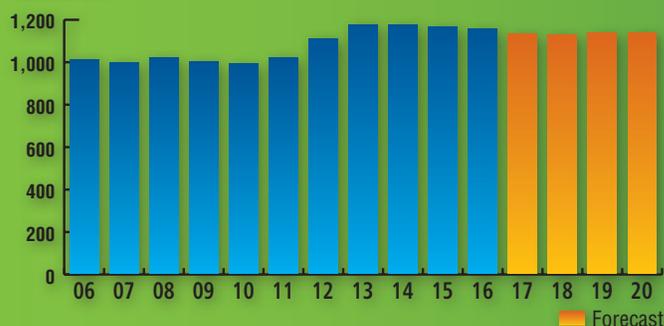
Worker mobility

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

Fire-protection mechanic	21%
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	28	69%	30%	1%	420
Journeyman	41	15%	77%	8%	731
Total, fire-protection mechanics	36	35%	59%	6%	1,151
All trades and occupations	39	26%	58%	16%	153,700