

Ironworker



Description of the trade

- Makes, mounts, and assembles all iron and steel elements used in construction
- Applies fabrication, bolting, welding, rigging, and assembly procedures to structural components such as beams, columns, and joists
- Applies fabrication, bolting, welding, rigging, and assembly procedures to architectural elements such as stairs, balconies, banisters, fencing, and canopies

ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Montage structural et architectural 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 2,000-hour apprenticeship periods (6,000 hours total) to be eligible to take the provincial qualification examination that leads to obtaining the journeyman competency certificate.

SKILLS AND INTERESTS

- Acquire knowledge related to application of mathematics, trigonometry, metallurgy, and reading of fabrication and installation plans
- Have good spatial perception
- Be independent, careful, agile, and have a sense of aesthetics
- Be able to work in a team
- Be in good physical shape and able to move heavy objects
- Be able to work at heights

Average annual salary*

Apprentice**	\$32,205
Journeyman***	\$53,272
Journeyman working at least 500 hours	\$68,212
Proportion****	75%

* 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	154	125
Placement rate of graduates*	2.2%	n/a

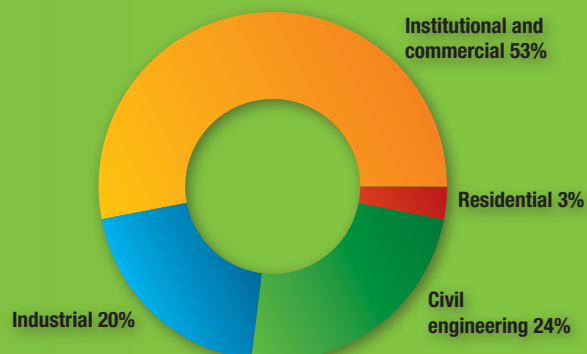
* Source: *La Relance au secondaire en formation professionnelle*, survey by the Ministère de l'Éducation et de l'Enseignement supérieur du Québec. New graduates are asked about their employment situation on June 1, after they have obtained their diploma.

Hourly wage* according to the collective agreements

	Industrial, institutional and commercial	Civil engineering and roadwork	Light residential
Apprentice			
1 st period	\$23.02	\$23.00	\$21.39
2 nd period	\$26.86	\$26.84	\$24.96
3 rd period	\$32.61	\$32.59	\$30.30
Journeyman	\$38.37	\$38.34	\$35.65

*Wage in May 2016.

Volume of work per sector



Job prospects



- There were 3,110 ironworkers active on construction sites in 2016, working for 639 different employers. Almost three of every ten employees work outside their home region.
- The institutional and commercial sector accounts for more than half the activity for this trade. A slight decline in activity for this sector is forecast over the medium term. By contrast, the civil engineering and roadwork sector should grow in coming years and almost a quarter of the hours worked by ironworkers are in this sector.
- There were 125 new apprentices in 2016, less than the annual average (154) for the previous four years. In their first year of work, apprentices earn an average income of \$32,200. The average annual income for a journeyman working at least 500 hours rises to \$68,200.
- Job prospects for this trade are rather limited. Higher availability of workers currently in the labour market should meet part of the workforce demand.

Training

Study program:

Diploma of vocational studies (DEP) –
Montage structural et architectural (5299)

Duration of training: 1,230 hours

Academic prerequisites: 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	91
Bas-Saint-Laurent-Gaspésie	199
Côte-Nord	83
Estrie	88
Island of Montréal	277
Laval-Laurentides-Lanaudière	677
Mauricie-Bois-Francs	222
Montréal	664
Outaouais	87
Québec	484
Saguenay-Lac-Saint-Jean	231
Outside of Québec and Baie-James	7
Total	3,110

Number of employed women 0

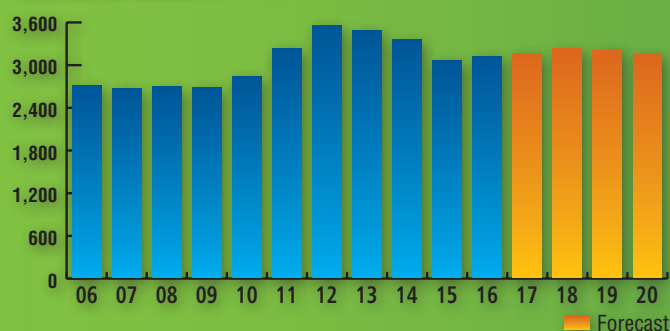
Worker mobility

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

Ironworker	29%
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	60%	35%	5%	753
Journeyman	45	11%	67%	22%	2,357
Total, ironworkers	41	23%	59%	18%	3,110
All trades and occupations	39	26%	58%	16%	153,700