

# 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.

## 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*	\$24,053
Journeyman**	\$45,425
Journeyman working at least 500 hours	\$61,206
Proportion***	70%

\* 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 2011-2014	2015
New admissions to the CCQ	203	75
Placement rate of graduates*	87%	n/a

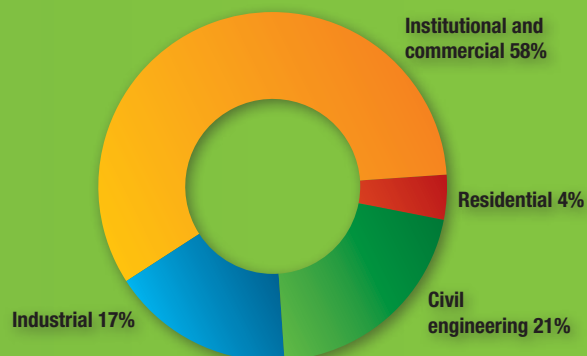
\* Source: *La Relance au secondaire en formation professionnelle*, survey by the Ministère de l'Éducation et de l'Enseignement supérieur du Québec. New graduates are asked about their employment situation on June 1, after they have obtained their diploma.

### Hourly wage\* according to the collective agreements

	Industrial, institutional and commercial	Civil engineering and roadwork	Light residential
Apprentice			
1 <sup>st</sup> period	\$23.02	\$23.00	\$21.39
2 <sup>nd</sup> period	\$26.86	\$26.84	\$24.96
3 <sup>rd</sup> 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



- In 2015, the number of ironworkers decreased to 3,050.
- More than half the volume of hours worked by ironworkers is done in the institutional and commercial sector, which is expected to gradually slow down in coming years. The civil engineering and roadwork sector will be good for this trade in coming years and the industrial sector should remain stable.
- There were 75 apprentices admitted to the industry in 2015, which is far below the average in previous years (203). Apprentices with a diploma from a vocational school earn an average salary of \$24,000 in the first year, and journeymen working at least 500 hours make an annual average salary of almost \$61,200.
- Activity in the industry will remain steady for this trade in coming years and the need for new workers will be fairly good. However, a large number of currently available workers will fill part of the 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](http://www.inforoutefpt.org)

### Employed workers in 2015

Abitibi-Témiscamingue	95
Bas-Saint-Laurent-Gaspésie	183
Côte-Nord	93
Estrie	95
Island of Montréal	248
Laval-Laurentides-Lanaudière	626
Mauricie-Bois-Francs	226
Montréal	634
Outaouais	98
Québec	504
Saguenay-Lac-Saint-Jean	232
Outside of Québec and Baie-James	16
<b>Total</b>	<b>3,050</b>

**Number of employed women** 0

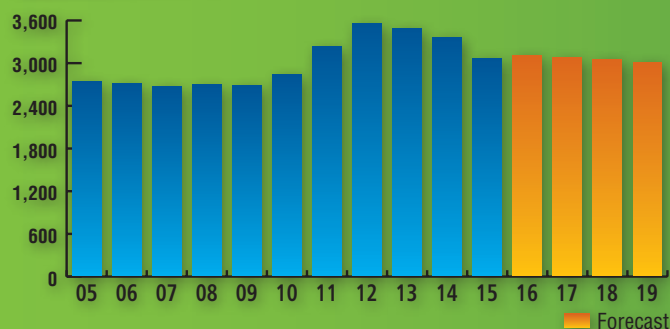
### Worker mobility

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

Ironworker	29%
All trades and occupations	16%

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

### Number of employed workers 2005-2019



### Age of the workforce in 2015

	Average age	Under 30 years	30-54 years	55 years and over	Total number of workers
Apprentice	31	58%	37%	5%	796
Journeyman	45	10%	68%	22%	2,254
<b>Total, ironworkers</b>	<b>41</b>	<b>22%</b>	<b>60%</b>	<b>18%</b>	<b>3,050</b>
All trades and occupations	39	27%	58%	15%	153,040