

# Boiler maker



## Description of the trade

- Manufactures, builds, assembles, installs, demolishes, and maintains a wide range of tanks, reservoirs, towers, and boilers
- Applies rigging, bolting, oxygen cutting, and welding techniques and assembles composite materials

## ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Chaudronnerie 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 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.
- Measures are in place to increase the presence of women on construction sites by 2018. Consult them at [mixite.ccq.org](http://mixite.ccq.org).

## SKILLS AND INTERESTS

- Acquire knowledge related to physical properties of steel, application of welding techniques, assembly and disassembly of scaffolding, reading of plans and specifications, mathematics, and geometric shapes
- Be in good physical condition (be able to work in uncomfortable positions) and have good manual dexterity
- Be able to move heavy objects and work at heights
- Be precise
- Have a sense of team spirit
- Respect workplace health and safety rules
- Be available to travel to remote regions

### Average annual salary\*

Apprentice**	\$36,875
Journeyman***	\$73,703
Journeyman working at least 500 hours	\$88,213
Proportion****	80%

\* 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	26	29
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 <sup>st</sup> period	\$22.79	\$22.81	\$21.39
2 <sup>nd</sup> period	\$26.59	\$26.61	\$24.96
3 <sup>rd</sup> 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



- Boiler maker is the trade with the highest proportion of employees who must travel between regions. In 2016, seven of ten boiler makers worked outside their home region. 50 employers hired at least one boiler maker in 2016.
- The number of active boiler makers rose to 745 in 2016. Virtually all boiler makers work in the industrial sector, where activity should remain fairly stable in coming years.
- In 2016, some 96% of apprentices were graduates.
- In 2016, 29 apprentices entered the construction industry for the first time, more than the average for the past four years. An apprentice boiler maker earns \$36,800 on average in the first year of work, while a journeyman working 500 hours or more averages \$88,200 a year.
- In coming years, job prospects for boiler makers are quite good. The workforce is aging and high turnover is creating demand for new workers. Note, however, that a very large number of boiler makers are currently available in the labour market, so part of the need for workers could be met by boiler makers already available.

## Training

### Study program:

Diploma of vocational studies (DEP) - Chaudronnerie (5356)

**Duration of training:** 1,290 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 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)

### Number of employed workers in 2016

Abitibi-Témiscamingue	17
Bas-Saint-Laurent-Gaspésie	97
Côte-Nord	21
Estrie	44
Island of Montréal	47
Laval-Laurentides-Lanaudière	137
Mauricie-Bois-Francs	99
Montréal	106
Outaouais	4
Québec	71
Saguenay-Lac-Saint-Jean	101
Outside of Québec and Baie-James	1
<b>Total</b>	<b>745</b>

**Number of employed women** 11

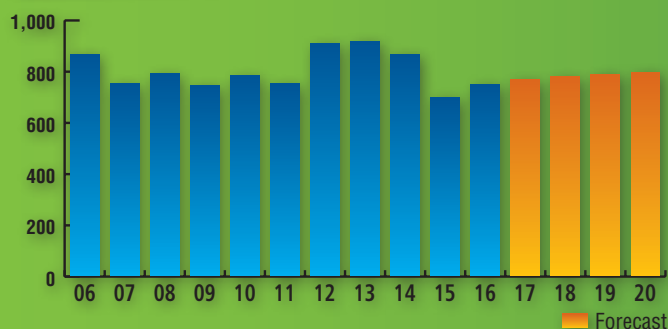
### Worker mobility

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

Boiler makers	70%
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	72%	25%	3%	110
Journeyman	46	14%	54%	32%	635
<b>Total, boiler makers</b>	<b>43</b>	<b>22%</b>	<b>50%</b>	<b>28%</b>	<b>745</b>
All trades and occupations	39	26%	58%	16%	153,700