

Heavy equipment mechanic



Description of the trade

- Maintains and repairs cranes, shovels, levellers, spreaders, rollers, tractors, off-road trucks, and all motorized construction equipment and machinery, fixed or mobile, used for grading, handling, or excavation

ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Mécanique d'engins de chantier 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 mechanics for diesel and four-stroke engines, hydraulics, pneumatics, electricity, and electronics
- Be careful and resourceful
- Have a sense of initiative
- Have a good visual memory
- Be in good physical condition
- Be capable of moving heavy objects

Average annual salary*

Apprentice**	\$18,207
Journeyman***	\$43,060
Journeyman working at least 500 hours	\$83,095
Proportion****	48%

* 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	19	17
Placement rate of graduates*	6.9%	n/a

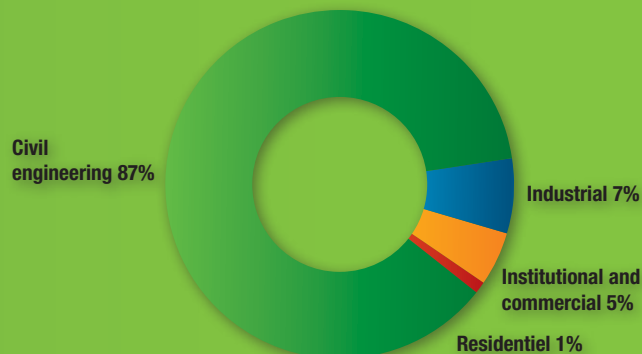
* Source: *La Relance au secondaire en formation professionnelle*, survey by the Ministère de l'Éducation et de l'Enseignement supérieur du Québec. New graduates are asked about their employment situation on June 1, after they have obtained their diploma.

Hourly wage* according to the collective agreements

	Industrial, institutional and commercial	Civil engineering and roadwork	Light residential
Apprentice			
1 st period	\$22.01	\$22.36	\$20.71
2 nd period	\$25.68	\$26.08	\$24.16
3 rd period	\$31.18	\$31.67	\$29.33
Journeyman	\$36.68	\$37.26	\$34.51

*Wage in May 2016.

Volume of work per sector



Job prospects



- For the first time since 2011, the number of heavy equipment mechanics rose from the previous year. In 2016, 379 heavy equipment mechanics entered construction sites. Some work in a shop and are not covered by construction industry collective agreements.
- In 2016, there were 156 employers of heavy equipment mechanics. A total of 88% of heavy equipment mechanics worked in the civil engineering and roadwork sector. Of the 379 workers who worked on construction sites in 2016, 44% worked outside their home region.
- The industry admitted 17 new apprentices in 2016, close to the annual average for the past four years (19). In their first year of work, apprentices earn an average of \$18,200. Journeymen working at least 500 hours average \$83,000 a year, one of the highest incomes in the construction industry.
- Job prospects for this trade are fairly limited despite high turnover and an aging workforce. Graduates find work very easily, but part of workforce demand could be met by the many workers already available.

Training

Study program:

Diploma of vocational studies (DEP) -
Mécanique d'engins de chantier (5331)

Duration of training: 1,800 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 regions:

- Abitibi-Témiscamingue
- Bas-Saint-Laurent
- Capitale-Nationale
- Chaudière-Appalaches
- Côte-Nord
- Estrie
- Gaspésie-Îles-de-la-Madeleine
- Laurentides
- Mauricie
- Montérégie
- Montréal
- Nord-du-Québec*
- Saguenay-Lac-Saint-Jean



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

* Training also offered in English in this region.

Number of employed workers in 2016

Abitibi-Témiscamingue	8
Bas-Saint-Laurent-Gaspésie	44
Côte-Nord	43
Estrie	20
Island of Montréal	14
Laval-Laurentides-Lanaudière	36
Mauricie-Bois-Francs	32
Montérégie	34
Outaouais	2
Québec	89
Saguenay-Lac-Saint-Jean	54
Outside of Québec and Baie-James	3
Total	379

Number of employed women 0

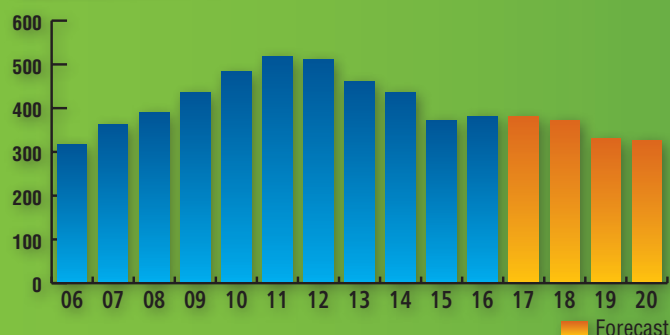
Worker mobility

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

Heavy equipment mechanic	44%
All trades and occupations	17%

* Excluding travel between the Montérégie, 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	32	50%	47%	3%	60
Journeyman	44	18%	58%	24%	319
Total, heavy equipment mechanics	42	23%	56%	21%	379
All trades and occupations	39	26%	58%	16%	153,700