



Shovel operator

Description of the trade

- Operates all types of mechanical shovels, cranes equipped with a clamshell or dragline bucket, robotic arm excavators and any other similar excavation equipment on wheels or tracks, fixed or mobile.

ACCESS TO CONSTRUCTION SITES

- Present to the CCQ proof of completion of DEP - Conduite 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.

APPRENTICESHIP SYSTEM

- Have completed the apprenticeship period of 2,000 hours 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, mechanics, hydraulics, and electricity, and the reading of plans and survey monuments
- Have dexterity and good physical coordination

Average annual salary

| | |
|---------------------------------------|----------|
| Apprentice* | \$13,396 |
| Journeyman** | \$35,763 |
| Journeyman working at least 500 hours | \$53,194 |
| Proportion*** | 63% |

* 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 | 147 | 76 |
| Placement rate of graduates* | 84.8% | n/a |

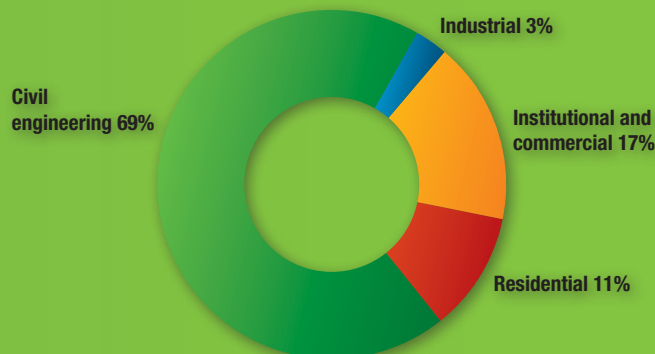
* Source: *La Relance au secondaire en formation professionnelle*, survey by the Ministère de l'Éducation et de l'Enseignement supérieur du Québec. New graduates are asked about their employment situation on June 1, after they have obtained their diploma.

Hourly wage* according to the collective agreements

| | Industrial, institutional and commercial | Civil engineering and roadwork | Light residential |
|-----------------------|--|--------------------------------|-------------------|
| Apprentice – Class AA | \$32.81 | \$32.28 | – |
| Journeyman – Class AA | \$38.60 | \$37.98 | – |
| Apprentice – Class A | \$31.80 | \$31.38 | \$29.08 |
| Journeyman – Class A | \$37.41 | \$36.92 | \$34.21 |
| Apprentice – Class B | \$30.78 | \$30.45 | \$28.19 |
| Journeyman – Class B | \$36.21 | \$35.82 | \$33.16 |

*Wage in May 2016.

Volume of work per sector



Job prospects



- In 2015, the number of shovel operators dropped for the second consecutive time, to stand at 6,772. This is due to the slowdown in the civil engineering and roadwork sector, which generates most of the work done by employees in this trade. Almost 2,300 employers hire shovel operators.
- Activity should be stimulated by major civil engineering projects in coming years, such as the Turcot interchange and the Champlain Bridge.
- The number of new apprentices in the industry dropped substantially to stand at 76 in 2015, compared to an average of 147 per year from 2011 to 2014. Integration into a construction site poses a challenge, as handling these machines requires much composure from both apprentice and employer! Although the average annual salary of a first-year apprentice may be \$13,400, that of a journeyman who works at least 500 hours may reach \$53,200. Seasonal variations have a major impact on annual income.
- Job prospects are fairly high for shovel operators. Demand will rise slightly in coming years, but part of the demand will be filled by currently available workers.

Training

Study program:

Diploma of vocational studies (DEP) -
Conduite d'engins de chantier (5220)

Duration of training: 1,095 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 regions:

- Chaudière-Appalaches
- Montérégie



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

Employed workers in 2015

| | |
|----------------------------------|--------------|
| Abitibi-Témiscamingue | 221 |
| Bas-Saint-Laurent-Gaspésie | 502 |
| Côte-Nord | 289 |
| Estrie | 367 |
| Island of Montréal | 163 |
| Laval-Laurentides-Lanaudière | 1,260 |
| Mauricie-Bois-Francs | 525 |
| Montérégie | 1,251 |
| Outaouais | 227 |
| Québec | 1,428 |
| Saguenay-Lac-Saint-Jean | 531 |
| Outside of Québec and Baie-James | 8 |
| Total | 6,772 |

Number of employed women 29

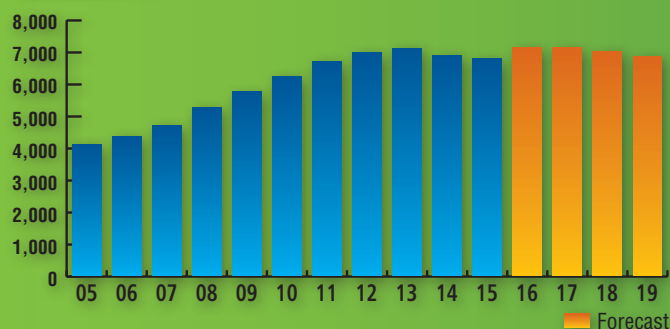
Worker mobility

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

| | |
|----------------------------|-----|
| Shovel operator | 18% |
| All trades and occupations | 16% |

* Excluding travel between the Montérégie, 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 | 37 | 37% | 50% | 13% | 870 |
| Journeyman | 44 | 14% | 61% | 25% | 5,902 |
| Total, shovel operators | 43 | 17% | 60% | 23% | 6,772 |
| All trades and occupations | 39 | 27% | 58% | 15% | 153,040 |