

Hoisting Engineer – Mobile Crane Operator Branch 2

Trades Qualification and Apprenticeship Act

Compulsory Trade

Trade Code 339C

NOC 7371

Description

A hoisting engineer, also referred to as a Mobile Crane Operator (Branch 2), is a person who maintains and operates mobile cranes that are capable of raising, lowering or moving material weighing more than 16,000 pounds but less than 30,000 pounds. Upon completion of this apprenticeship you could progress to a Mobile Crane Operator (Branch 1). A "Mobile Crane" is a mechanical device or structure that incorporates a boom and is capable of moving in the vertical and horizontal plane and is able to raise, lower or move a load suspended from the boom, and is mounted on a mobile base or chassis and includes a telescoping or articulated boom.

Duties include:

- Understanding and practicing safety precautions to protect yourself and others
- Being able to conduct pre-operational inspections, prepare and transport cranes
- Planning lifts and performing rigging
- Setting up, operating and maintaining cranes

Consult the [National Occupational Classification \(NOC\)](#) for further information.

Personal Qualities

- You are willing to work outdoors in all types of weather
- You are extremely aware of safety and you are willing to learn and apply health and safety rules
- You have good mathematical skills and can calculate capacity and weights correctly
- You are willing to drive longer distances to various project sites
- You can judge distances
- You are able to stay calm in potentially dangerous situations
- You have clear and effective communication skills
- You have good eyesight and hand/eye coordination

Review the [Essential Skills profile](#) for additional skills required for a Mobile Crane Operator.

Career Opportunities

- Hoisting engineers work through contractors or directly for commercial building developers, building construction firms, large manufacturing companies and heavy construction firms as well as small and medium companies
- Some mobile crane operators have their own companies

- The majority of hoisting engineers are union members

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, many employers require Grade 12
- Completion of a a 1,000 hour program is required

Read the [Apprenticeship Training Standard](#) by the Ontario College of Trades for more information.

Training Availability

Trade Related Programs

[Construction and Hoisting Techniques](#)

[Durham College](#)

Apprenticeship Training

[Mobile Crane Operator Branch 2 Apprenticeship](#)

[Operating Engineers Training Institute of Ontario](#)

If you are attending high school, you may benefit from enrolling in a [Specialist High Skills Major](#) in [Construction](#).

Please contact Employment Ontario at 905 837-7721 or 1-800-461-4608 for further Apprenticeship Training help.

Potential Earnings

- Mobile crane operators earn more while operating the crane than while driving to the site
- Wages range from [\\$18.00 - \\$38.00 an hour](#), excluding overtime, with journeyperson earning the higher end of the pay scale
- Apprentices' wages progress as a percentage of journeypersons' wages over time

Prospects For Employment

- Employment prospects are [expected to be good](#)
- Employment opportunities are dependent on the economic cycle and the conditions of the manufacturing and construction industries
- [Technological advances will moderate employment](#). Operators who are adaptable to using electronic controls, versus mechanical operations, have higher employment prospects
- Ratio for journeyperson/apprentice is 1:1

Use the [Explore Careers by Occupation](#) search engine for more information about employment prospects and wages in your area.

Financial Incentives

- Apprentices may apply for the [Tradesperson's Tools Tax Deduction](#)
- The [Loans for Tools](#) program offers new apprentices a loan to help them buy the tools and equipment they need to perform the trade in which they are registered
- There is support for [non-Employment Insurance eligible apprentices](#) during in-school training

Additional Information

[International Union Of Operating Engineers, Local 793](#)

[Pathways to Apprenticeship](#)

[National Occupational Classification](#)

[Ontario College of Trades](#)

[Apprenticeship Curriculum Standard](#)

[Competency Analysis Profile](#)

[Ontario Construction Secretariat](#)

[Working in Canada](#)

[Labour Market Information](#)

[Careers in Construction](#)