



Crane and Hoisting Operator - Mobile Crane

SCHOOL OF TRANSPORTATION

Overview

Learn to service and operate the hoist and swing equipment used to move machinery, materials and other large objects.

If you like to work independently and are a capable decision-maker, you'll enjoy a career as a mobile crane operator. You'll service and operate booms that are mounted on crawlers or wheeled frames as well as travelling, fixed or climbing-type hoisting equipment with a vertical mast or tower and a jib.

You'll manipulate a number of pedals and levers to rotate the crane and raise and lower its boom and one or more load lines. Some or all of these operations may be performed simultaneously.

Certification is required when operating mobile cranes with a lifting capacity of fifteen tons (13.6 tonnes) and over. You may drive the crane to the job site, rig the machine up (pin the boom and pendant cables and pull the hoist cable in preparation for operation), and set up the machine for the lift (make it level and stable) using blocking and levelling materials.

To work in this trade, certification is required. This means that you must either be a registered apprentice who is working under the guidance of a certified journeyman or you must be a certified journeyman yourself.

Traits, skills and aptitudes

Mobile crane operators are skilled tradespeople who are self-motivated and enjoy working independently.

To thrive in this career, it is important to have the following traits:

- coordination and manual dexterity
- the ability to work at heights
- the strength, stamina, and ability to lift heavy items (over 25kg) using proper lifting techniques
- good vision
- the ability to work as part of a team and communicate with ground crews using hand signals and voice communication
- a commitment to safe work habits

Credentials

Upon successfully completing the required working hours and apprenticeship education periods, graduates will be awarded a certificate in addition to journeyman status by Alberta's Apprenticeship and Industry Training.

This is a Red Seal Endorsed trade – a recognizable standard that allows tradespeople to work across Canada.

Admission requirements

To enter an apprenticeship, you must have the educational qualifications required or recommended education for the trade to which you apply.

Entrance requirements are monitored and set by Alberta Apprenticeship and Industry Training.

Minimum requirements

Successful completion of the following courses:

- English 10-2
- Math 10-3

OR

A pass mark in all five Canadian General Educational Development (GED) tests

OR

Alberta Apprenticeship and Industry Training Entrance Exam

Recommended requirements

Apprentices with an Alberta High School Diploma that includes the following courses:

- English 30-2
- Math 30-3
- Physics 20 OR Chemistry 20 OR Science 20
- Related career and technology studies (CTS) courses

Costs

2024/25 tuition and fees

The following costs are effective as of July 1, 2024.

Period	Number of weeks	Tuition fees	Additional fees	Total
1	6	\$864	\$311	\$1,175
3	6	\$864	\$311	\$1,175
Total cost:				\$3,525

The estimated total cost of 2024/25 tuition and fees in each period of technical training.

Books and Supplies

Books or modules, along with other items for classes, are approximately \$900 per period.

It's recommended you don't purchase books or modules ahead of time as they might be outdated by the time you attend classes, and they cannot be returned to the Bookstore.

Personal protective equipment (PPE) will be required for the program, which may be an additional cost to apprentices.

2023/24 tuition and fees

The following costs are effective until June 30, 2024.

Period	Number of weeks	Tuition fees	Additional fees	Total
1	6	\$762	\$301	\$1,093
2	6	\$762	\$301	\$1,093
3	6	\$762	\$301	\$1,093
Total cost:				\$3,279

The estimated total cost of 2023/24 tuition and fees in each period of technical training.