



## **MOBILE CRANE OPERATOR**

**THIS BC PROGRAM HAS BEEN HARMONIZED AND IS BASED ON RSOS 2021**

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### **Occupation Description**

“Mobile Crane Operator” means a person who operates a mobile crane to perform lifts and hoists, sets up cranes, takes down cranes, and plans lifts and crane procedures.

For detailed information on the scope of knowledge and skills taught and assessed in this program refer to the Program Outline, available on the SkilledTradesBC website.

### **Pathways to Certification**

In BC, an individual can become certified as a Mobile Crane Operator by completing the Mobile Crane Operator program or by challenging the certification. All crane operators must be registered BC Crane Safety prior to applying for SkilledTradesBC apprenticeship registration. Apprenticeship programs are for individuals who have an employer to sponsor them and challenge programs are for individuals who have extensive experience working in the occupation and wish to challenge the certification.

Youth can begin an apprenticeship in high school through the Youth Train in Trades or Youth Work in Trades programs. The Youth Work in Trades program is available for any trade if an employer is willing to sponsor the student. Trades offered through the Youth Train in Trades vary by region; contact your local school district to find out which technical training programs are being offered through the Youth Train in Trades program in your region.

### **Recommended Education**

The following education is recommended for apprentices entering this occupation. These are not prerequisites, but rather a desired level of skill or knowledge that will contribute to success in the industry.

- Grade 12 or equivalent

### **BC Crane Safety Registration**

BC Crane Safety registration is required for all crane operators in British Columbia. Registration forms are available on the BC Crane Safety website at [www.bccranesafety.ca](http://www.bccranesafety.ca).

### **SkilledTradesBC Registration**

Individuals who wish to begin an apprenticeship in this program must register with SkilledTradesBC along with their sponsor. Application forms for all programs are available from the SkilledTradesBC website. Online registration is also available for most programs through the SkilledTradesBC website.

Those who wish to challenge the Mobile Crane Operator certification must complete the Mobile Crane Operator Challenge Application and submit it to SkilledTradesBC. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the challenge pathway.



**Apprenticeship Pathway**

This graphic provides an overview of the Mobile Crane Operator apprenticeship pathway.

C of Q = Certificate of Qualification  
C of A = Certificate of Apprenticeship



\* Crane-related experience as entered in the operator’s BC Crane Safety electronic logbook  
† Must include a minimum of 1,600 hours of mobile crane operating time. Of the 1,600 operating hours, a minimum of 400 hours must be accumulated on one or more of:

- Mobile lattice friction equipment
- Mobile lattice hydraulic equipment
- Mobile hydraulic equipment with capacity greater than 80 tonnes

**CROSS-PROGRAM CREDITS**

Individuals who hold partial credit in a crane program and plan to move to an alternate crane program

Mobile Crane Operator and Tower Crane Operator Level 1

Technical Training: Level 1, including SkilledTradesBC Level 1 Standardized Written Exam



**Apprenticeship Program Standards**

**Credentials Awarded**

- Mobile Crane Operator – Certificate of Qualification with Interprovincial Red Seal endorsement
- Mobile Crane Operator– Certificate of Apprenticeship

**SkilledTradesBC  
Registration Prerequisites**

- Agreement signed by the employer to sponsor the apprentice

**Completion Requirements**

Certification as a Mobile Crane Operator is awarded upon successful completion of:

<b>Requirement</b>	<b>Level of Achievement Required</b>
Technical Training	<ul style="list-style-type: none"> <li>Minimum 70% in each level of technical training:                             <ul style="list-style-type: none"> <li>▪ Mobile Crane Operator Level 1: 210 hours</li> <li>▪ Mobile Crane Operator Level 2: 140 hours</li> <li>▪ Mobile Crane Operator Level 3: 70 hours</li> </ul> </li> </ul>
SkilledTradesBC Level 1 Standardized Written Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70%</li> </ul>
SkilledTradesBC Level 3 Standardized Written Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70% <i>Note: Successful completion of the Level 1 Standardized Written Exam is required before attempting the Level 3 Standardized Written Exam</i></li> </ul>
Interprovincial Red Seal Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70% <i>Note: Successful completion of the Level 1 Standardized Written Exam is required before attempting the Interprovincial Red Seal Exam</i></li> </ul>
SkilledTradesBC Standardized Practical Assessment	<ul style="list-style-type: none"> <li>▪ Pass <i>Note: Successful completion of the Level 1 Standardized Written Exam and the Level 3 Technical Training is required before attempting the practical assessment</i></li> </ul>
Work-Based Training	<ul style="list-style-type: none"> <li>▪ Minimum of 4,980 hours <i>Note: Must include a minimum of 1,600 hours of mobile crane operating time. Of the 1,600 operating hours, a minimum of 400 hours must be accumulated on one or more of:</i> <ul style="list-style-type: none"> <li>○ <i>Mobile lattice friction equipment</i></li> <li>○ <i>Mobile lattice hydraulic equipment</i></li> <li>○ <i>Mobile hydraulic equipment with capacity greater than 80 tonnes</i></li> </ul> </li> </ul>
Notification by BC Crane Safety that the Sponsor(s) has recommended certification of the apprentice in this trade	<ul style="list-style-type: none"> <li>▪ Electronic logbook which includes workplace hours signed off by the Sponsor(s)</li> </ul>




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**Program Duration**      Duration varies depending on how training is delivered and the type and number of workplace hours that are accumulated.

The technical training requirement is typically met through block-release training (full-time, at school) delivered by a SkilledTradesBC-approved training provider. It can also be met through approved alternative training models (e.g., distance education, online, part-time) and/or level challenge where these options are available.

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**Challenging a Level**      The following levels of technical training can be challenged for advanced placement in this program. Note that there are eligibility requirements to challenge a level.

- Level 1

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**Cross-Program Credits**      Individuals who hold partial credit in a crane program and plan to move to an alternate crane program

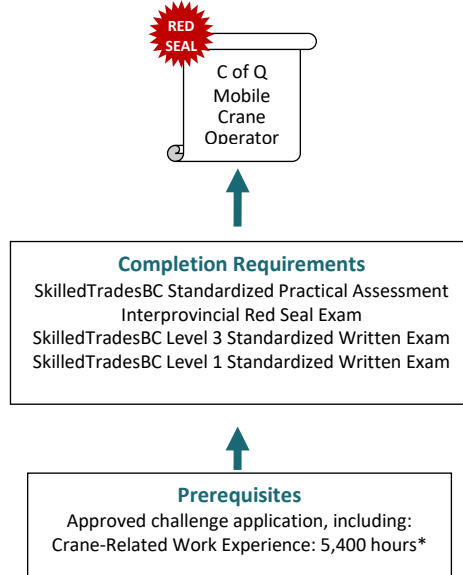
<b>Credential</b>	<b>Credit(s) Granted</b>
Mobile Crane Operator and Tower Crane Operator Level 1	<ul style="list-style-type: none"> <li>▪ Technical Training: Level 1, including SkilledTradesBC Level 1 Standardized Written Exam</li> </ul>



**Challenge Pathway**

This graphic provides an overview of the Mobile Crane Operator challenge pathway.

*C of Q = Certificate of Qualification*

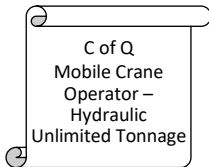


\* Must include a minimum of 1,600 hours of mobile crane operating time. Of the 1,600 operating hours, a minimum of 400 hours must be accumulated on one or more of:

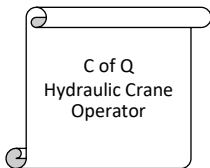
- Mobile lattice friction equipment
- Mobile lattice hydraulic equipment
- Mobile hydraulic equipment with capacity greater than 80 tonnes

**CREDIT FOR PRIOR LEARNING**

*Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program*



- Credit for Prior Learning:
- SkilledTradesBC Level 1 Standardized Written Exam
  - SkilledTradesBC Level 3 Standardized Written Exam



- Credit for Prior Learning:
- SkilledTradesBC Level 1 Standardized Written Exam
  - SkilledTradesBC Level 3 Standardized Written Exam



**Challenge Program Standards**

**Credentials Awarded** Mobile Crane Operator – Certificate of Qualification with Interprovincial Red Seal endorsement

**SkilledTradesBC Registration Prerequisites** An approved Challenge Application, which includes:

- Minimum of 5,400 documented hours of directly-related experience working in the occupation. Must include a minimum of 1,600 hours of mobile crane operating time. Of the 1,600 operating hours, a minimum of 400 hours must be accumulated on one or more of:
  - Mobile lattice friction equipment
  - Mobile lattice hydraulic equipment
  - Mobile hydraulic equipment with capacity greater than 80 tonnes
- Documented evidence of achievement of the competencies listed in the SkilledTradesBC Mobile Crane Operator Challenge Application

**Credit for Prior Learning** Individuals who hold the credentials listed below are considered to have met, or partially met, the prerequisites for challenging this program:

<b>Credential</b>	<b>Credit(s) Granted</b>
Mobile Crane Operator – Hydraulic Unlimited Tonnage	<ul style="list-style-type: none"> <li>▪ SkilledTradesBC Level 1 Standardized Written Exam</li> <li>▪ SkilledTradesBC Level 3 Standardized Written Exam</li> </ul>
Hydraulic Crane Operator	<ul style="list-style-type: none"> <li>▪ SkilledTradesBC Level 1 Standardized Written Exam</li> <li>▪ SkilledTradesBC Level 3 Standardized Written Exam</li> </ul>

**Completion Requirements** Certification as a Mobile Crane Operator is awarded upon successful completion of:

<b>Requirement</b>	<b>Level of Achievement Required</b>
SkilledTradesBC Level 1 Standardized Written Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70%</li> </ul>
SkilledTradesBC Level 3 Standardized Written Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70%</li> <li>▪ <i>Note: Successful completion of the Level 1 Standardized Written Exam is required before attempting the Level 3 Standardized Written Exam</i></li> </ul>
Interprovincial Red Seal Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70%</li> <li>▪ <i>Note: Successful completion of the Level 1 Standardized Written Exam is required before attempting the Interprovincial Red Seal Exam</i></li> </ul>
SkilledTradesBC Standardized Practical Assessment	<ul style="list-style-type: none"> <li>▪ Pass</li> <li>▪ <i>Note: Successful completion of the Level 1 Standardized Written Exam and the Level 3 Standardized Written Exam is required before attempting the practical assessment</i></li> </ul>



### Supporting Documents

Mobile Crane Operator Program Outline (2024) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the SkilledTradesBC website: [www.skilledtradesbc.ca](http://www.skilledtradesbc.ca).

Mobile Crane Operator Red Seal Occupational Standard (2021) – Prepared by industry experts, under the guidance of the federal government, for Red Seal trades to define the national standard of competence for the trade. Available from the Red Seal website: [www.red-seal.ca](http://www.red-seal.ca).

Operator logbook – Crane programs utilize an electronic logbook which is assigned upon registering with BC Crane Safety. All crane operators must be registered with BC Crane Safety.

### Contacts

SkilledTradesBC manages B.C.'s industry training and apprenticeship programs. Contact SkilledTradesBC Customer service if you have any questions regarding registration, examinations, or certification for this program.

Telephone:	778-328-8700	Fax: 778-328-8701
Toll Free (within BC):	1-866-660-6011	Email: <a href="mailto:customerservice@skilledtradesbc.ca">customerservice@skilledtradesbc.ca</a>
Website:	<a href="http://www.skilledtradesbc.ca">www.skilledtradesbc.ca</a>	

**BC Crane Safety** sets and manages the industry program standards and the crane operator certification program in British Columbia. BC Crane Safety works with industry to identify current and emerging knowledge, skill, and safety requirements for occupations related to this program.

Telephone:	604-336-4699	Fax: 604-336-4510
Email:	<a href="mailto:info@bccranesafety.ca">info@bccranesafety.ca</a>	Website: <a href="http://www.bccranesafety.ca">www.bccranesafety.ca</a>

### Revision History

The standards for this program were reviewed and/or updated on the dates below.

Program Standards Approved:	December 2016
Updated:	June 2017
Updated:	July 2017
Updated:	May 2021
Updated:	April 2022
Updated:	November 2023
Updated:	July 2024

Program Profiles are updated regularly. Visit [www.skilledtradesbc.ca](http://www.skilledtradesbc.ca) for the most current version.