

Crane Types

IMPORTANT: This Level D application is for **Tower Crane**.
 Upon successful completion of all the tasks outlined on pages 3 and 4, the employer will receive, on behalf of the operator, a Level D Certificate – Tower Crane.
 The following list outlines all ten crane types. All weights metric.

Mobile Crane	Boom Truck	Tower Crane
Friction Lattice Boom	Stiff Boom - Unlimited Tonnage	Tower Crane
Hydraulic Lattice Boom	Stiff Boom - 40 Tonnes & Under	Self Erect Tower Crane
Hydraulic - Unlimited Tonnage	Folding Boom - Unlimited Tonnage	
Hydraulic - 80 Tonnes & Under	Folding Boom - 22 Tonnes & Under	

PAYMENT INFORMATION

Assessment Fee

\$125 plus \$6.25 GST per operator. **Total Payment: \$131.25**

Type of Payment (check one) Cheque Credit Card

Cheques

- Personal and business cheques are accepted.
- Make cheques payable to **Fulford Harbour Group**
- For all cheques that are not honoured there is a service fee of \$50.

Credit Card Information

Type (check one) Visa MasterCard American Express

Card Number --- Expiry Date /
mm yy

CVV#
 Security Number

Visa & MC: 3 digit number on back of card
 Amex: 4 digit number on front of card

Name on Card

Signature _____

Billing Address Same as Employer Information **YES** **NO** (if NO please fill out below)

Name Phone:

Address Apt/Suite

City Province Postal Code

INDIVIDUAL AGREEMENT

Crane Operator: Please sign here to consent to have the information in this application shared with WorkSafeBC and its designates.

Signature _____

Date _____

EMPLOYER DECLARATION

By initialing each competency, the employer is attesting that they have direct evidence that the applicant fulfills each competency. Each competency must be initialled for the applicant to receive the Level D Certificate – Tower Crane.

K: Indicates that it is a theory competency (knowledge of the crane operator)

W: Indicates that is is a workplace competency (an activity an operator performs)

		Employer Initials
1.	Safety (CS)	
1.1	Demonstrate knowledge of safe working practices for crane operators (K)	<input type="checkbox"/>
1.2	Demonstrate knowledge of Workplace Hazardous Materials Information System (WHMIS) (K)	<input type="checkbox"/>
1.3	Manage first aid in emergency situations (K)	<input type="checkbox"/>
1.4	Demonstrate knowledge of power line hazards and high voltage equipment (K)	<input type="checkbox"/>
1.5	Comply with WorkSafe BC and OH&S regulations (W)	<input type="checkbox"/>
1.6	Respond to fire emergencies (W)	<input type="checkbox"/>
1.7	Demonstrate knowledge of tower crane specific PPE (K)	<input type="checkbox"/>
1.8	Demonstrate knowledge of regulation, standards and documentation relevant to tower crane operations (K)	<input type="checkbox"/>
1.9	Demonstrate knowledge of regulations and protocols for operating a tower crane in proximity to power lines, cable hazards and high and low voltage equipment (K)	<input type="checkbox"/>
1.10	Demonstrate knowledge of documentation for the site and the operator’s tower crane (W)	<input type="checkbox"/>
2.	Communications (CCOM)	
2.1	Demonstrate knowledge of personnel involved in crane operations (K)	<input type="checkbox"/>
2.2	Demonstrate knowledge of hand signals (K)	<input type="checkbox"/>
2.3	Demonstrate knowledge of radio communications (K)	<input type="checkbox"/>
2.4	Demonstrate knowledge of workplace communications (K)	<input type="checkbox"/>
2.5	Use hand signals in the workplace (W)	<input type="checkbox"/>
2.6	Use radio communications in the workplace (W)	<input type="checkbox"/>
2.7	Communicate information clearly and check for understanding in the workplace (W)	<input type="checkbox"/>
2.8	Demonstrate knowledge of tower hand signals (K)	<input type="checkbox"/>
2.9	Demonstrate knowledge of tower crane radio protocols and vocabulary (K)	<input type="checkbox"/>
2.10	Interpret tower crane hand signals in the workplace (W)	<input type="checkbox"/>
2.11	Use tower crane radio protocols and vocabulary in the workplace (W)	<input type="checkbox"/>

		Employer Initials
3.	Cranes (CC)	
3.1	Demonstrate knowledge of types of cranes and classifications (K)	<input type="checkbox"/>
3.3	Demonstrate knowledge of terminology related to craning and craning concepts (K)	<input type="checkbox"/>
3.6	Demonstrate knowledge of hoisting terminology, functions and systems (K)	<input type="checkbox"/>
3.7	Demonstrate knowledge of regulatory requirements pertaining to cranes (K)	<input type="checkbox"/>
3.8	Demonstrate knowledge of the training and certification process for tower crane operators (K)	<input type="checkbox"/>
3.9	Demonstrate knowledge of tower crane applications (K)	<input type="checkbox"/>
3.10	Demonstrate knowledge of tower crane types and configurations (K)	<input type="checkbox"/>
3.11	Demonstrate knowledge of the erection and dismantling processes for tower cranes (K)	<input type="checkbox"/>
3.12	Demonstrate knowledge of components and their functions for different types of tower cranes (K)	<input type="checkbox"/>
3.13	Demonstrate knowledge of tower crane climbing and towering methods and hazards (K)	<input type="checkbox"/>
3.14	Demonstrate knowledge of drives, controls and safety devices for tower cranes (K)	<input type="checkbox"/>
3.15	Identify and describe the function of the drives, controls and safety devices on the operator’s tower crane (W)	<input type="checkbox"/>
4.	Rigging (CR)	
4.1	Demonstrate knowledge of lifting theory and forces (K)	<input type="checkbox"/>
4.2	Demonstrate knowledge of rigging hardware, materials, tools and manuals (K)	<input type="checkbox"/>
4.3	Demonstrate knowledge of types and function of wire rope and chains (K)	<input type="checkbox"/>
4.4	Demonstrate knowledge of installation, inspection and storage of wire rope (K)	<input type="checkbox"/>
4.5	Demonstrate knowledge of rigging techniques (K)	<input type="checkbox"/>
4.6	Use rigging hardware and tools in the workplace (W)	<input type="checkbox"/>
5.	Load Charts (CLC)	
5.1	Demonstrate knowledge of determining weight loads using fundamental math functions and calculations (K)	<input type="checkbox"/>
5.2	Demonstrate knowledge of loading and lifting (K)	<input type="checkbox"/>
5.3	Interpret load charts and load study drawings to configure crane for workplace operation (W)	<input type="checkbox"/>
6.	Transportation & Delivery (ATD)	

**Employer
Initials**

7. Site Planning & Crane Positioning (ASPCP)

8. Crane Operations (CO)

- 8.1 Demonstrate knowledge of pre-operational requirements in crane operations (K)
- 8.4 Demonstrate crane set-up per manufacturer’s instructions (except Task 4 in Mobile) (W)

9. Maintenance & Service (CMS)

- 9.7 Maintain an equipment logbook to retain a permanent written record of maintenance and repairs (W)
- 9.8 Demonstrate knowledge of daily and monthly inspections for tower cranes (K)
- 9.9 Demonstrate knowledge of annual and special inspection requirements for tower cranes (K)
- 9.10 Conduct a start of shift tower crane inspection in the workplace (W)
- 9.11 Conduct tower crane load limit and range of travel tests inthe workplace (W)

13. Tower Crane Operations

- 13.1 Demonstrate knowledge of hoisting and rigging for tower cranes (K)
- 13.2 Demonstrate knowledge of tower crane load charts and load calculations (K)
- 13.3 Demonstrate knowledge of how weather conditions affect tower crane operations (K)
- 13.4 Demonstrate knowledge of a tower crane operator’s duties and responsibilities (K)
- 13.5 Demonstrate knowledge of protocols for leaving a tower crane unattended (K)
- 13.6 Demonstrate knowledge of protocols for operating a tower crane ona multi-crane site (K)
- 13.7 Operate a tower crane safely in the workplace according to regulations and manufacturer’s specifications (W)
- 13.8 Leave a tower crane unattended in the workplace (W)

Employer Certification

I certify that the information I (as employer) have provided is accurate.

Operator Name: _____

Employer Name: _____

Employer Signature _____ Date _____

Please mail this form (and cheque if paying by cheque) to Fulford Harbour Group, Suite 202 – 7950 Huston Road, Delta, BC, V4G 1C2.
For payment by credit card, applications can be faxed to 1.866.791.7083 or emailed to info@fulford.ca.
For all queries, please contact our main office toll free at 1.888.952.6033 or in the Lower Mainland at 604.952.6033.