



**Crane Types**

**IMPORTANT:** This Level D application is for Mobile Cranes – **Friction Lattice**.  
 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 – Friction Lattice.  
 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 /

Visa & MC: 16 digits; Amex: 15 digits

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 – Friction Lattice.

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)
- 1.2 Demonstrate knowledge of Workplace Hazardous Materials Information System (WHMIS) (K)
- 1.3 Manage first aid in emergency situations (K)
- 1.4 Demonstrate knowledge of power line hazards and high voltage equipment (K)
- 1.5 Comply with WorkSafe BC and OH&S regulations (W)
- 1.6 Respond to fire emergencies (W)

**2. Communications (CCOM)**

- 2.1 Demonstrate knowledge of personnel involved in crane operations (K)
- 2.2 Demonstrate knowledge of hand signals (K)
- 2.3 Demonstrate knowledge of radio communications (K)
- 2.4 Demonstrate knowledge of workplace communications (K)
- 2.5 Use hand signals in the workplace (W)
- 2.6 Use radio communications in the workplace (W)
- 2.7 Communicate information clearly and check for understanding in the workplace (W)

**3. Cranes (CC)**

- 3.1 Demonstrate knowledge of types of cranes and classifications (K)
- 3.2 Demonstrate knowledge of crane components and attachments (K)
- 3.3 Demonstrate knowledge of terminology related to craning and craning concepts (K)
- 3.4 Demonstrate knowledge of engines and ancillary systems (K)
- 3.5 Demonstrate knowledge of power transfer for cranes (K)
- 3.6 Demonstrate knowledge of hoisting terminology, functions and systems (K)
- 3.7 Demonstrate knowledge of regulatory requirements pertaining to cranes (K)

		<b>Employer Initials</b>
<b>4.</b>	<b>Rigging (CR)</b>	
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"/>
<b>5.</b>	<b>Load Charts (CLC)</b>	
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"/>
<b>6.</b>	<b>Transportation &amp; Delivery (ATD)</b>	
6.1	Demonstrate knowledge of BC Ministry of Transportation - Commercial Transport rules and regulations as they pertain to transportation of cranes (K)	<input type="checkbox"/>
6.2	Demonstrate knowledge to prepare and to transport a mobile crane (K)	<input type="checkbox"/>
6.3	Demonstrate knowledge of to assemble and disassemble a crane at a worksite (K)	<input type="checkbox"/>
6.4	Prepare and transport a mobile crane to a worksite following all highway and traffic rules and regulations (W)	<input type="checkbox"/>
6.5	Assemble and disassemble a crane at a worksite (W)	<input type="checkbox"/>
<b>7.</b>	<b>Site Planning &amp; Crane Positioning (ASPCP)</b>	
7.1	Demonstrate knowledge of accurate site assessment tools (K)	<input type="checkbox"/>
7.2	Demonstrate knowledge to locate and safely position crane (K)	<input type="checkbox"/>
7.3	Conduct an accurate site assessment and safely position a crane in the workplace (W)	<input type="checkbox"/>

		<b>Employer Initials</b>
<b>8.</b>	<b>Crane Operations (CO)</b>	
8.1	Demonstrate knowledge of pre-operational requirements in crane operations (K)	<input type="checkbox"/>
8.2	Demonstrate knowledge of crane operations (K)	<input type="checkbox"/>
8.3	Demonstrate knowledge to leave a crane unattended (K)	<input type="checkbox"/>
8.4	Demonstrate crane set-up per manufacturer’s instructions (including Task 4) (W)	<input type="checkbox"/>
8.5	Use a mobile crane to safely pick and carry loads in a workplace (W)	<input type="checkbox"/>
8.6	Leave a crane unattended (W)	<input type="checkbox"/>
<b>9.</b>	<b>Maintenance &amp; Service (CMS)</b>	
9.1	Demonstrate knowledge of inspecting engines, monitoring devices and hydraulic systems (K)	<input type="checkbox"/>
9.2	Demonstrate knowledge of servicing and maintenance procedures on mobile cranes (K)	<input type="checkbox"/>
9.3	Complete maintenance checklists (engine on / engine off) and maintain engines to manufacturer’s specifications (W)	<input type="checkbox"/>
9.4	Perform routine inspections and maintenance of hydraulic systems (W)	<input type="checkbox"/>
9.5	Inspect monitoring devices and control mechanisms (W)	<input type="checkbox"/>
9.6	Perform service on engine cooling systems on mobile cranes (W)	<input type="checkbox"/>
9.7	Maintain an equipment logbook to retain a permanent written record of maintenance and repairs (W)	<input type="checkbox"/>
<b>12.</b>	<b>Lattice Friction Crane (ALFC)</b>	
12.1	Demonstrate knowledge of lattice friction crane structure and assembly (K)	<input type="checkbox"/>
12.2	Demonstrate knowledge of lattice friction crane load charts and load calculations (K)	<input type="checkbox"/>
12.3	Demonstrate knowledge of lifting plans and rigging for lattice friction cranes (K)	<input type="checkbox"/>
12.4	Operate a lattice friction crane safely according to manufacturer’s specifications and regulations (W)	<input type="checkbox"/>

## 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](mailto: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.