

Crane Common Core Level 1*

STANDARDIZED LEVEL EXAM (SLE) BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Crane Common Core Level 1 SLE*.

**Boom Truck Operator - Folding Boom Unlimited Tonnage*

**Boom Truck Operator - Stiff Boom Unlimited Tonnage*

**Mobile Crane Operator - Hydraulic 80 Tonnes and Under*

Number of questions on each exam: 36

Level 1 GAC/Competency	#
A. SAFETY	3
A1. Demonstrate knowledge of safe working practices for crane operators	1
A2. Demonstrate knowledge of power line hazards and high voltage equipment	2
A3. Comply with WorkSafe BC Occupational Health and Safety Regulation (OHSR)	0
B. COMMUNICATIONS	5
B1. Demonstrate knowledge of personnel involved in crane operations	1
B2. Demonstrate knowledge of hand signals	2
B3. Demonstrate knowledge of radio communications	1
B4. Demonstrate knowledge of workplace communications	1
B5. Use hand signals in the workplace	0
B6. Use radio communications in the workplace	0
B7. Communicate information clearly and check for understanding in the workplace	0
C. CRANES	4
C1. Demonstrate knowledge of types of cranes and classifications	1
C2. Demonstrate knowledge of terminology related to craning and craning concepts	1
C3. Demonstrate knowledge of hoisting terminology, functions and systems	1
C4. Demonstrate knowledge of regulatory requirements pertaining to cranes	1
D. RIGGING AND LIFTING THEORY	11
D1. Demonstrate knowledge of lifting theory and forces	4
D2. Demonstrate knowledge of slings (all types), rigging hardware, materials, inspection and capacity cards	6

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D3. Demonstrate knowledge of wire rope hoist construction and inspection	1
D6. Use rigging hardware and tools in the workplace	0
E. HOISTING FUNDAMENTALS	11
E1. Demonstrate knowledge of determining load weights using fundamental math functions and calculations	6
E2. Demonstrate knowledge of determining the capacity of a crane using load charts	5
E3. Interpret load charts and load study drawings to configure crane for workplace operation	0
H. CRANE OPERATIONS	2
H1. Demonstrate knowledge of pre-operational requirements in crane operations	2
H8. Conduct pre-operational inspections of mobile cranes and equipment in the workplace	0
H9. Conduct safe crane set-up according to manufacturer's specifications	0
I. MAINTENANCE AND SERVICE	0
I1. Maintain an equipment logbook to retain a permanent written record of maintenance and repairs	0
Total:	36