

Tower Crane Operator (2024) 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 *Tower Crane Operator (2024) Level 1 SLE*.

Number of questions on each exam: 80

Level 1 GAC/Competency	#
A. USE COMMON OCCUPATIONAL SKILLS	9
A1. Comply with regulations, policies, and manufacturers' manuals	2
A2. Maintain a safe work environment	2
A3. Follow emergency procedures	1
A4. Awareness of energized systems	2
A5. Practice effective worksite communications	2
B. DEFINE CRANE TYPES AND TERMINOLOGY	3
B1. Define crane types	1
B2. Use crane terminology	2
C. DEFINE SYSTEMS AND COMPONENTS	7
C1. Describe structural, mechanical, and electrical system components and functions	4
C2. Describe support equipment components and functions	1
C3. Describe track (rail) travel components and functions	0
C4. Describe cab, safety, and access components and functions	2
D. USE RIGGING	19
D1. Identify types of slings and rigging hardware	4
D2. Inspect slings and rigging hardware	3
D3. Maintain and store slings and rigging hardware	3
D4. Perform rigging	9
E. PERFORM HOISTING CALCULATIONS	9
E1. Determine load weights	4
E2. Use a crane capacity chart	5

Level 1 GAC/Competency	#
F. PERFORM CRANE INSPECTION AND MAINTENANCE	13
F1. Use tools for basic crane maintenance	1
F2. Perform basic crane maintenance	3
F3. Identify pre-operational inspection components	3
F4. Perform pre-operational inspection	4
F5. Inspect, maintain, and use crane wire rope	2
G. PLAN A LIFT	4
G1. Describe ordinary lift planning	4
H. PERFORM COMMON CRANE OPERATIONS	14
H1. Interpret operator manuals	4
H2. Perform tower crane operations and hoisting techniques	6
H3. Monitor conditions	2
H4. Secure crane	2
J. USE SPECIALIZED OPERATIONS	2
J1. Operate with a suspended work platform	2
Total:	80