

Piledriver and Bridgeworker

CERTIFICATE OF QUALIFICATION EXAM BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Piledriver and Bridgeworker Certificate of Qualification Exam*.

Number of questions on each exam: 100

Certificate of Qualification GAC/Competency	#
A. APPLY SAFE WORK PRACTICES	7
A1. Apply Site Safety Practices	1
A2. Apply Personal Safety Practices	2
A4. Use Fire Safety Procedures	1
A8. Prevent Environmental Damage	3
B. USE DOCUMENTATION AND ORGANIZATIONAL SKILLS	5
B1. Use Construction Drawings and Specifications	3
B3. Use Trade Related Math	1
B4. Use Trade Related Science	1
C. USE TOOLS AND EQUIPMENT	6
C2. Use Portable Power Tools and Equipment	2
C4. Use Oxy-Fuel Cutting Equipment	2
C5. Use Shielded Metal Arc Welding (SMAW) Equipment	2
D. USE SURVEY INSTRUMENTS AND OTHER LEVELLING AND MEASURING TECHNIQUES	2
D1. Use Levelling Instruments and Equipment	1
D3. Use Site Layout Equipment	1
E. USE ACCESS, RIGGING AND HOISTING EQUIPMENT	20
E1. Use Ladders, Scaffolds and Access Equipment	3
E2. Use Rigging and Hoisting Equipment	6
E3. Use Hoisting Equipment and Rigging Techniques	9
E4. Assemble and Disassemble Cranes	2
F. PERFORM SITE LAYOUT	4
F1. Layout Bridge Abutment and Pier Locations	1
F2. Prepare Job Site	1
F3. Layout a Foundation Piling Project	1
F5. Apply Excavation and Shoring Practices	1

Certificate of Qualification GAC/Competency	#
G. BUILD CONCRETE FORMWORK	20
G1. Use Concrete Types, Materials, Additives and Treatments	3
G2. Build Footing and Vertical Formwork	5
G3. Select and Build Concrete Forming Systems	2
G4. Build Slab-On-Grade Forms and Suspended Slab Forms	3
G5. Install Reinforcement and Embedded Items	2
G6. Place and Finish Concrete	1
G7. Install Specialized Formwork	1
G9. Install Construction and Expansion Joints	1
G10. Maintain and Repair Concrete Structures	2
H. DESCRIBE THE PILEDRIIVER AND BRIDGEWORKER TRADE	0
I. USE MARINE WORK PROCEDURES	4
I2. Use Moving and Positioning Vessels	2
I3. Interpret Tide Tables and Marine Charts	2
J. BUILD EXCLUSION AND RETENTION STRUCTURES	4
J1. Describe Exclusion and Retention Structures	1
J2. Build Cofferdams	1
J3. Build Bulkheads	1
J4. Build Tieback Walls	1
K. USE PILE AND FOUNDATION PROCEDURES	19
K1. Describe the Properties and Testing of Soils	3
K2. Use Unique Installation and Soil Improvement Techniques	2
K3. Describe Types of Piles and Deep Foundations	3
K4. Install and Extract Piles	2
K5. Use Piledriving Equipment	6
K6. Describe the Design, Testing and Inspection of Piles	1
K7. Use Load Testing Procedures	2
L. BUILD WITH TIMBER AND STEEL	4
L1. Build with Timber	1
L2. Build with Structural Steel	3
M. INSTALL, REPAIR AND MAINTAIN BRIDGES, RAMPS AND MARINE STRUCTURES	5
M1. Repair and Maintain Bridge Decks and Components	1
M2. Repair and Maintain Bridge and Ramp Bearings	2
M3. Assemble and Launch Bridges and Girders	2
Total:	100

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January 1, 2023