

**COMPETENCY ANALYSIS PROFILE
BRICK AND STONE MASON**

(All unshaded skill sets must be demonstrated/completed)

SKILL SETS**SKILLS**

USE AND MAINTAIN TOOLS AND EQUIPMENT 6440.0	Use and maintain mason's hand tools and associated equipment 6440.01	Use and maintain electrical, pneumatic, gasoline/diesel powered, powder actuated/hydraulic power tools and associated equipment and supplies. 6440.02	Use and maintain measuring devices and layout equipment 6440.03		
INSPECT AND USE MATERIAL HANDLING AND SAFETY EQUIPMENT 6441.0	Select and inspect rigging equipment 6441.01	Position and employ rigging 6441.02	Select and inspect hoisting and lifting equipment 6441.03	Operate hoisting equipment 6441.04	Select, inspect and erect scaffold systems 6441.05
	Work on scaffolding and at heights 6441.06	Dismantle and store scaffold systems 6441.07			
ESTABLISH JOB REQUIREMENTS 6442.0	Determine job preparation needs 6442.01	Estimate job requirements 6442.02	Identify building code, safety code and other code requirements 6442.03		
PREPARE WORK SITE 6443.0	Plan work site layout 6443.01	Prepare for materials delivery 6443.02	Set up work area 6443.03	Communicate and consult with supervisor, technical advisor and other workers 6443.04	

SKILL SETS

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ADAPT JOB SITE ENVIRONMENT	Cover or enclose work and supply areas	Adjust work environment and work procedures for cold weather	Adjust work environment and work procedures for hot weather		
6444.0	6444.01	6444.02	6444.03		

INSTALL TEMPORARY MASONRY SUPPORT STRUCTURES	Select materials to build support structures	Construct temporary masonry supports	Install temporary masonry support structures	Remove temporary masonry support structures	
6445.0	6445.01	6445.02	6445.03	6445.04	

CLEAN AND DISASSEMBLE WORK SITE	Clean the work site	Disassemble the work site	Clean and repair masonry surfaces		
6446.0	6446.01	6446.02	6446.03		

INSTALL WALL SYSTEM ACCESSORIES	Prepare substrates	Install insulation in the wall system	Install air barriers in the wall system	Install vapour barriers in the wall system	Install anchors and connectors in or on the prepared substrate
6447.0	6447.01	6447.02	6447.03	6447.04	6447.05
	Install flashing and water drainage systems	Install integrated masonry wall components	Install and finish masonry wall control and expansion joints		
	6447.06	6447.07	6447.08		

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PLACE GROUT	Select type of grout required	Prepare grout	Install grout to required area	Consolidate grout	
6448.0	6448.01	6448.02	6448.03	6448.04	

PLACE MORTAR	Select type of mortar required	Prepare mortar	Apply mortar to a required area	Finish mortar application	Cure mortar
6449.0	6449.01	6449.02	6449.03	6449.04	6449.05

PREPARE MASONRY UNITS	Cut manufactured masonry units to size	Prepare masonry units for installation	Cut stone to size	Select, sort and cut refractory and acid resistant masonry units	
6450.0	6450.01	6450.02	6450.03	6450.04	

LAY OUT MASONRY JOB	Locate and place masonry reference line	Lay out wall lines and heights from gridlines and benchmarks	Match and masonry type to existing or required masonry	Establish coursing and spacing	Mark openings, utility and accessory sites and control/expansion joint (movement joint) locations
6451.0	6451.01	6451.02	6451.03	6451.04	6451.05

BUILD STRUCTURAL MASONRY AND REFRACTORY SYSTEMS	Build foundation walls	Build load bearing masonry	Build arches, vaults and domes	Construct basins and furnace hearths with masonry units or refractory materials	
6452.0	6452.01	6452.02	6452.03	6452.04	

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BUILD NON-STRUCTURAL MASONRY COMPONENTS 6453.0	Install unit masonry veneer and accessories	Install stone cladding and accessories	Install materials and accessories to prefabricated units	Erect prefabricated masonry units	Parge masonry
	6453.01	6453.02	6453.03	6453.04	6453.05

BUILD MASONRY FIREPLACES 6454.0	Construct chimney and firebox foundation	Construct firebox	Construct throat, damper, smoke chamber and flue configuration	Build chimney and cap	Construct fireplace facing and accessories
	6454.01	6454.02	6454.03	6454.04	6454.05
	Select and construct or install alternative heating systems				
	6454.06				

MAINTAIN AND RESTORE EXISTING MASONRY 6455.0	Develop restoration plan	Replace failed pointing and parging	Repair masonry units	Apply restorative surface treatments	Apply protective surface treatments
	6455.01	6455.02	6455.03	6455.04	6455.05
	Maintain project restoration records				
	6455.06				

SKILL SETS

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<p>WATERPROOF BELOW GRADE MASONRY</p> <p>6456.0</p>	<p>Prepare surfaces for damp proofing and waterproofing</p> <p>6456.01</p>	<p>Apply damp proofing and waterproofing materials</p> <p>6456.02</p>			
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<p>DEMONSTRATE SAFE WORKING PRACTICES AND PROCEDURES</p> <p>6457.0</p>	<p>Identify and take corrective action against potential workplace health and safety hazards</p> <p>6457.01</p>	<p>Handle, store and dispose of hazardous workplace materials</p> <p>6457.02</p>	<p>Comply with workplace legislation relating to health and safety</p> <p>6457.03</p>	<p>Wear and maintain personal protective equipment</p> <p>6457.04</p>	<p>Practice good housekeeping in the workplace</p> <p>6457.05</p>
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