

## WORKSHOP TECHNOLOGY PRACTICES

**UNIT CODE: CON/CU/BUT/CC/02/4**

### RELATIONSHIP TO OCCUPATIONAL STANDARDS

This unit addresses the unit of competency: Apply Workshop Technology Practices

**DURATION OF UNIT:** 70 Hours

### UNIT DESCRIPTION

This unit describes the competence in applying workshop technology practices. It entails performing masonry, plumbing and carpentry tasks.

### SUMMARY OF LEARNING OUTCOMES

1. Perform masonry tasks
2. Perform plumbing tasks
3. Perform carpentry tasks

### Learning Outcomes, Content and Suggested Assessment Methods

Learning outcome	Content	Suggested assessment methods
1. Perform masonry tasks	<ul style="list-style-type: none"><li>• Masonry workshop safety requirements</li><li>• Masonry hand tools</li><li>• Masonry machine tools</li><li>• Maintenance of masonry tools</li><li>• Use of masonry tools</li></ul>	<ul style="list-style-type: none"><li>• Practical projects</li><li>• Practical Tests</li><li>• Oral questioning</li><li>• Observation of work procedures</li></ul>
2. Perform plumbing tasks	<ul style="list-style-type: none"><li>• Plumbing workshop safety requirements</li><li>• Plumbing hand tools</li><li>• Plumbing machine tools</li><li>• Maintenance of plumbing tools</li><li>• Use of plumbing tools</li></ul>	<ul style="list-style-type: none"><li>• Practical projects</li><li>• Practical Tests</li><li>• Oral questioning</li><li>• Observation of work procedures</li></ul>
3. Perform carpentry tasks	<ul style="list-style-type: none"><li>• Carpentry workshop safety requirements</li><li>• Carpentry hand tools</li><li>• Carpentry machine tools</li><li>• Maintenance of carpentry tools</li></ul>	<ul style="list-style-type: none"><li>• Practical projects</li><li>• Practical Tests</li><li>• Oral questioning</li><li>• Observation of work procedures</li></ul>

	<ul style="list-style-type: none"> <li>• Use of carpentry tools</li> </ul>	
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**Suggested Methods of Instruction:**

- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Field trips
- Trainee group discussions

**Recommended Resources**

**Tools and equipment**

- Masons trowel
- Wood float
- Cold chisels
- Masons square
- Spade
- Shovel
- Plumb bob
- Concrete mixer
- Block cutter
- Vibrator
- Pneumatic hammer
- Compactors
- Bench shears
- Anvil
- Pipe wrench
- Pliers
- Bending machine
- Welding
- Sheet metal holding machine
- Portable power drill
- Saws
- Planes
- Hammer
- Carpenter square

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- Marking gauges
- Hand drill
- Screw drivers
- Circular saw
- Thicknesser
- Portable sander
- Close cut saw
- Portable drill machine
- Screw driver
- Pliers
- Long nose
- Side cutter
- Draw in wire
- Arc welding shields
- Leather gloves
- Chipping hammers
- Welding goggles
- Tongs
- Hand vices
- Pliers
- Centrifugal
- Submersible
- Reciprocating pump
- Hand pumps
- Hand grinder

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### **Materials and supplies**

- Lumber
- PPR pipes
- PVC pipes
- GI pipes
- Pipe fittings
- Cement
- Sand
- Lime
- Sheet metal
- Steel plates

- Plumbing appliances
- Fuel
- Grease
- Oil
- Filters

**Personal protective equipment (PPEs)**

- Helmets
- Gloves
- Safety goggles
- Safety boots
- Overalls
- Dust masks
- Gas masks
- Dust coats

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