

# MAINTENANCE OF PLUMBING SYSTEMS

**UNIT CODE:** CON/CU/PL/CR/06/4/A

## Relationship to Occupational Standards

This unit addresses the Unit of Competency: Maintain plumbing systems

**Duration of Unit:** 80 hours

## Unit Description

This unit specifies the competencies required to maintain plumbing systems. It involves detecting faults in plumbing systems, quantifying requirements for repair, fixing plumbing system faults and testing functionality of plumbing system as well as carrying out housekeeping practices.

## Summary of Learning Outcomes

1. Detect plumbing systems faults
2. Quantify requirements for repair
3. Fix plumbing system faults
4. Test functionality of plumbing system
5. Carryout housekeeping activities

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Detect plumbing systems faults	<ul style="list-style-type: none"><li>• Terms and concepts</li><li>• Common faults in plumbing works</li><li>• Causes of faults in plumbing works</li></ul>	<ul style="list-style-type: none"><li>• Observation</li><li>• Written tests</li><li>• Oral questioning</li><li>• Interviewing</li><li>• Third party reports</li></ul>

2. Quantify requirements for repair	<ul style="list-style-type: none"> <li>• Materials and supplies for repair</li> <li>• Estimation of quantities</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questioning</li> <li>• Interviewing</li> <li>• Third party reports</li> </ul>
3. Fix faults in plumbing system	<ul style="list-style-type: none"> <li>• Terms and concepts</li> <li>• Types of maintenance</li> <li>• PPEs and their application</li> <li>• Plumbing tools and equipment</li> <li>• Rectification procedures</li> <li>• Plumbing parts repair/replacement</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questioning</li> <li>• Interviewing</li> <li>• Third party reports</li> </ul>
4. Test functionality of plumbing system	<ul style="list-style-type: none"> <li>• Testing plumbing systems</li> <li>• Types of tests</li> <li>• Reinstating plumbing systems</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questioning</li> <li>• Interviewing</li> <li>• Third party reports</li> </ul>
5. Carryout housekeeping activities	<ul style="list-style-type: none"> <li>• Meaning and significance of housekeeping activities</li> <li>• Waste management</li> <li>• Care, maintenance and storage of plumbing tools and equipment</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

#### **Suggested Methods of Instruction:**

- Demonstration by trainer
- Practice by the trainee
- Field trips
- Discussions
- Direct instruction

#### **Recommended Resources**

## **Functional Plumbing Workshop with the following:**

### **Tools and Equipment**

- Pipe wrench
- Pipe cutter
- Hacksaw
- Pipe Threading Equipment
- Vices
- Taps
- Punch
- Files
- Screwdrivers
- Drill with various sizes of bits
- Portable drill
- Mallet
- Ball peen hammer
- Mason chisel
- PPR machine / Heat Fusion equipment
- Pipe bender
- Trowel
- De-clogging wire / de-clogging machine
- Toilet pump

### **Supplies and Materials**

- Screws
- Adhesives
- Cement
- Sand
- Pipes
- Traps
- Electric cables
- Caulking material
- Fitting

easyvet.com