

MAINTANANCE OF PLUMBING SYSTEMS INSTALLATION

UNIT CODE: CON/CU/PL/CR/06/5/A

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Maintain plumbing systems

Duration of Unit: 90 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 plumbing system. It applies in the construction industry.

Summary of Learning Outcomes

1. Detect plumbing systems faults
2. Quantify requirements for repair
3. Fixing plumbing system faults
4. Test plumbing system

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Detect plumbing systems faults	<ul style="list-style-type: none">• Terms and concepts• Common faults in plumbing works• Causes of faults in plumbing works• Rectifying faults in plumbing works	<ul style="list-style-type: none">• Observation• Written tests• Oral questioning• Interviewing• Third party reports
2. Quantify requirements for repair	<ul style="list-style-type: none">• Terms and concepts• Materials and supplies for repair• Estimation of quantities• Appliance and fittings• Reference to manufacturer's manual	<ul style="list-style-type: none">• Observation• Written tests• Oral questioning• Interviewing• Third party reports

	<ul style="list-style-type: none"> • 	
3. Fix faults in plumbing system	<ul style="list-style-type: none"> • Terms and concepts • Types of maintenance • Maintenance reports & schedules • PPEs and their use • Plumbing tools and equipment • Rectification procedures • Safety, care and maintenance of plumbing tools and equipment • Plumbing parts repair/replacement • Housekeeping • Storage of plumbing tools and equipment 	<ul style="list-style-type: none"> • Observation • Written tests • Oral questioning • Interviewing • Third party reports
4. Test plumbing system	<ul style="list-style-type: none"> • Testing plumbing systems • Types of tests • Reinstating plumbing systems 	<ul style="list-style-type: none"> • Observation • Written tests • Oral questioning • Interviewing • Third party reports

Suggested methods of instructions

- Discussions
- Demonstration
- visiting Lecturer/Expert
- Industrial Visits

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