

# INSTALLATION OF WATER STORAGE SYSTEMS AND ANCILLARY APPLIANCES

**UNIT CODE:** CON/CU/PL/CR/05/4/A

## Relationship to Occupational Standards

This unit addresses the Unit of Competency: Install water storage systems and ancillary appliances

**Duration of Unit:** 70 hours

## Unit Description

This unit covers the competencies required to install storage systems and ancillary appliances. It involves interpreting working, quantifying materials and supplies, mounting and testing of water storage systems and ancillary appliances and carrying out housekeeping practices.

## Summary of Learning Outcomes

1. Interpret water storage drawings
2. Quantify water storage and ancillary appliances supplies and materials
3. Mount water storage systems and ancillary appliances
4. Test working of water storage and ancillary appliances
5. Carryout housekeeping activities

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Interpret water storage drawings	<ul style="list-style-type: none"><li>• Terms and Concepts</li><li>• Symbols</li><li>• Scales</li><li>• Measurements</li><li>• Reference points</li></ul>	<ul style="list-style-type: none"><li>• Observation</li><li>• Oral questioning</li><li>• Interviewing</li><li>• Third party reports</li><li>• Written tests</li></ul>

2. Quantify water storage and auxiliary appliances supplies and materials	<ul style="list-style-type: none"> <li>• Terms and concepts</li> <li>• Types of storage</li> <li>• Types of ancillary appliances</li> <li>• Quantifying materials and supplies</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. Mount water storage structures and ancillary appliances	<ul style="list-style-type: none"> <li>• Terms and concepts</li> <li>• PPEs</li> <li>• Types of storages systems</li> <li>• Pumping systems</li> <li>• Installation of storage systems</li> <li>• Water storage system supports</li> <li>• Occupational health and safety requirements</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 working of water storage system and ancillary appliances	<ul style="list-style-type: none"> <li>• Testing storage and ancillary appliances functionality</li> <li>• Repairing storage and ancillary system faults</li> <li>• Commission and hand over</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 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
- Vice - Bench
- Pliers
- Tap and Punch
- Files
- Screwdrivers
- Drill with various sizes of bits
- Mallet
- Ball hammer
- PPR machine / Heat Fusion equipment
- Pipe bender
- Sealant gun

##### **Supplies and Materials**

- Fittings
- Backnuts
- Cisterns
- Valves
- Sealant
- Water proofing agents