

# INSTALLATION OF RAINWATER HARVESTING SYSTEM

**UNIT CODE:** CON/CU/PL/CR/02/4/A

## Relationship to Occupational Standards

This unit addresses the Unit of Competency: Install rain water harvesting system

**Duration of Unit:** 60 hours

## Unit Description

This unit covers the competencies required to install rainwater harvesting systems. It involves interpreting the working drawings, quantifying materials and supplies, installing and testing of rainwater harvesting system and carrying out housekeeping practices.

## Summary of Learning Outcomes

1. Interpret working drawings
2. Quantify rainwater harvesting materials
3. Install rainwater harvesting goods
4. Test rainwater harvesting system
5. Carryout housekeeping activities

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Interpret working drawing	<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>• Third party report</li><li>• Interviewing</li><li>• Written tests</li></ul>

<p>2. Quantify rainwater harvesting materials and supplies</p>	<ul style="list-style-type: none"> <li>• Terms and concepts</li> <li>• Rainwater goods materials and supplies <ul style="list-style-type: none"> <li>○ Plastics</li> <li>○ Ferrous</li> <li>○ Non-ferrous</li> </ul> </li> <li>• Types of rainwater goods</li> <li>• Types of fittings</li> <li>• Material and supplies schedule</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 report</li> </ul>
<p>3. Install rainwater harvesting goods</p>	<ul style="list-style-type: none"> <li>• Terms and concepts</li> <li>• Jointing methods</li> <li>• Cutting methods</li> <li>• Rainwater harvesting and storage</li> <li>• Materials and supplies</li> <li>• Installation of rainwater goods</li> <li>• Quality checks</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 report</li> </ul>
<p>5. Test rainwater harvesting system</p>	<ul style="list-style-type: none"> <li>• Terms and concepts</li> <li>• Structural and Functionality tests</li> <li>• Fault checks and correction</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 report</li> </ul>
<p>6. Carryout housekeeping activities</p>	<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 Workshop with the following:**

##### **Tools and Equipment**

- Plumb bob
- Measuring tools (Tape measure, infra-red light, rule etc.)
- Marking tools
- Cutting tools
- Fastening tools
- files
- Wire brushes
- Holding tools
- Drilling equipment

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

- Pipes
- Gutters
- Pipe fittings
- Accessory
- Adhesives
- Sealant

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