INSTALLATION OF DRAINAGE SYSTEMS

UNIT CODE: CON/CU/PL/CR/03/4/A

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Install drainage systems

Duration of Unit: 80 hours

Unit Description

This unit covers the competencies required to install drainage systems. It involves interpreting the working drawings, setting out the drainage system, quantifying drainage system components and supplies, mounting and testing of drainage systems and carrying out housekeeping practices.

Summary of Learning Outcomes

- 1. Interpret working drawings
- 2. Quantify drainage materials and supplies
- 3. Set out drainage systems
- 4. Mount drainage system
- 5. Test drainage system
- 6. Carryout housekeeping activities

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome		Content	Suggested Assessment Methods
1.	Interpret working drawing	 Terms and Concepts Symbols Scales Measurements Reference points 	ObservationOral questioningThird party reportInterviewingWritten tests
2.	Quantify drainage system materials and	Terms and conceptsDrainage system materials and	ObservationWritten tests

3. Set out drainage systems	supplies Material and supplies schedule Types of rainwater goods Estimation of quantities Terms and concepts Setting out methods Leveling Boning rods Hose pipe Drainage bends	 Oral questioning Interviewing Third party report Observation Written tests Oral questioning Interviewing Third party report
4. Mount drainage system	 Terms and concepts Installation procedure Above ground Underground Types of drainage pipes Types of appliances Types of traps Types of drainage systems Drainage trench excavation Drainage pipe sizes and pipe laying Construction of inspection chambers and manholes. Mounting of drainage traps Haunching drainage systems 	 Observation Written tests Oral questioning Interviewing Third party report
5. Test drainage system	Terms and conceptsStructural and Functionality testSoundness testFault checks	 Observation Written tests Oral questioning Interviewing Third party report

6.	Carryout housekeeping	•	Meaning and significance of	•
	activities		housekeeping activities	
		•	Waste management	
		•	Care, maintenance and storage of	
			tools and equipment	

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

- Measuring tools
- Leveling equipment's
- Mason trowels
- Mason square
- Spirit level
- Hose Pipe
- Boning rods
- Floats
- Mallet
- Ball hammer
- Masonry chisel

Supplies and Materials

• Various types and sizes of fittings

- Caulking tools
- Various types of pipe supports
- Clay pipes
- UPVC
- Cast iron
- Concrete

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