WATER AND WASTEWATER TECHNOLOGY

UNIT CODE: CON/CU/CET/CC/07/6/A

Relationship to Occupational Standards

This unit addresses the unit of competency: apply water & wastewater technology

Duration of Unit: 120 Hours

Unit Description

This unit describes the competence required to apply water & wastewater technology practices. It involves applying basic water supply principles, principles of wastewater collection & treatment and basic irrigation & drainage principles.

Summary of Learning Outcomes

- 1) Apply basic water supply principles
- 2) Apply principles of wastewater collection and treatment
- 3) Apply basic irrigation and drainage principles

Learning Outcomes, Content and Suggested Assessment Methods:

Learning Outcome	Content	Suggested
	25	Assessment
	⊗°	Methods
1. Apply basic water supply principles	Water demand	 Oral questioning
	Sources of water	• Written tests
	Water abstraction	 Observation
	Water treatment	 Practical test
	Safe water storage and handling	
	Water pipes and appurtenances	
	Water supply symbols	
	Distribution system	
2. Apply principles of wastewater collection and treatment	Sources of waste water	Oral questioning
	Types of sewers	• Written tests
	Sewerage systems	 Observation
	Characteristics of wastewater	 Practical test
	Sewer appurtenances	
	Wastewater Treatment processes	
	and disposal	

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	Wastewater symbolsWastewater colour coding for pipes	
	and exhauster trucks	
3. Apply basic	Soil, plant-water relationship	Oral questioning
irrigation and	• Land preparation	• Written tests
drainage	• Sources of water for irrigation	 Observation
principles	• Irrigation farm layout	 Practical test
	• Quality of irrigation water	
	• Irrigation methods	
	• Methods of drainage	

Suggested Methods of Instruction

- Demonstration by trainer
- Practice by the trainee
- Field trips
- On-job-training
- Discussions

Recommended Resources

- Scientific Calculators
- Relevant reference materials
- Stationery
- Relevant practical materials
- Laboratories (chemical, biological & soils)
- Internet
- Projector

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