FOREST RESOURCES MANAGEMENT

UNIT CODE: ENV/CU/MGT/CR/07/6/A

Relationship to Occupational Standards

This unit addresses the unit of competency: Manage forest resources

Duration of Unit: 70 hours

Unit Description

This unit describes the competencies required to manage forest resources. It involves classifying forests, establishing forests, conserving and certifying forests.

Summary of Learning Outcomes

1. Classify forests
2. Establish forests
3. Conserve forests
4. Certify forests

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Classify forests	• Meaning and importance of forests • Types of forests and classification • Values and functions of forests • Status of different types of forests in Kenya • Watersheds in Kenya	• Observation • Oral questioning • Written tests • Projects • Practical assignments
2. Establish forests	• Agroforestry • Tree species • Establishment and management of tree nurseries • Transplanting of seedlings • Forest mensuration • Forest sampling and estimation techniques	• Observation • Oral questioning • Written tests • Projects • Practical assignments

	• Forest practices	
	• Afforestation	
	• Reforestation	
	• Regeneration	
	• Rehabilitation	
	• Restoration	
	• Forest biodiversity	
	• Forest biodiversity conservation	

3. Conserve forests	• Principles of forest management
	• Forest conservation, management policies and legal framework (Forest Act 2005)
	• Forest conservation strategies
	• Values of forests
	    • Socio-economic
	    • Cultural
	    • Ecological
	• Forest regeneration, recruitment and recovery
	• Challenges and threats to forests in Kenya
	• Participatory forest management
	• Forest management plan
	• Urban forestry
	• Role of Community Forest Association (CFA)
		• Observation
		• Oral questioning
		• Written tests
		• Projects
		• Practical assignments

4. Certify forests	• Forest products • Forest product utilization is licensed • Forest certification principles • Carbon trading • Forest harvesting and marketing • Markets for certifying forests • Forest audits • Preparation of forest audit report	• Observation • Oral questioning • Written tests • Projects • Practical assignments

Suggested Methods of Instruction
- Lectures
- Group discussions
- Demonstration by trainer
- Exercises by trainee

Recommended Resources
- Maps
- Compass
- Survey tools
- Farm tools
- Stationery
- Internet