MANAGE FOREST RESOURCES

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

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

ELEMENTS **These describe the key outcomes which make up workplace function.**	PERFORMANCE CRITERIA **These are assessable statements which specify the required level of performance for each of the elements.** *Bold and italicized terms are elaborated in the Range.*
1. Classify forests	1.1 *Types of forests* are identified based on their characteristics 1.2 Forests are *classified* as per ownerships 1.3 Forests are zoned based on their functionalities 1.4 Land is allocated as per forest activities
2. Establish forests	2.1 Tree species are identified based on the zone 2.2 Tree nurseries are established and managed as per SOPs 2.3 Seedlings are transplanted from the nurseries and grown in the field 2.4 Tree growth is monitored and assessed as per workplace procedures 2.5 Forest biodiversity conservation is observed.
3. Conserve forests	3.1 Forest conservation and management policies are applied 3.2 *Forest conservation strategies* are identified and applied 3.3 Community and stakeholders are involved in forest conservation. 3.4 Forest product utilization is licensed 3.5 *Values* of forests are identified and utilized 3.6 Natural regeneration is observed 3.7 Growth of indigenous and exotic plantations are monitored
4. Certify forests	4.1 Forest certification principles are identified and applied 4.2 Markets for certifying forests are determined 4.3 Certified forests are audited 4.4 Forest audit report is prepared

RANGE
This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Types of forests may include but not limited to:	☐ Tropical rainforests ☐ Temperate deciduous ☐ Temperate coniferous ☐ Boreal forests
2. Classified may include but not limited to:	☐ Public ☐ Community ☐ Private
3. Forest conservation strategies may include but not limited to:	☐ Reforestation ☐ Afforestation ☐ Agroforestry ☐ Soil and water conservation
4. Values may include but not limited to:	☐ Social economic ☐ Cultural ☐ Ecological

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills:

- ☐ Sensitization
- ☐ Report writing
- ☐ Record keeping
- ☐ Forest auditing
- ☐ Farming
- ☐ Planning and organizing
- ☐ Monitoring and evaluation
- ☐ Leadership
- ☐ Taking forest inventory
- ☐ Analytical
- ☐ ICT
- ☐ Growing trees
- ☐ Research

Required knowledge

The individual needs to demonstrate knowledge of:

- ☐ GIS

- Forest certifications
- Indigenous and exotic trees
- Resource mobilization
- Plant morphology
- Forest plantations
- Geography
- Soil and water conservation.
- Classification of forests
- Farming tools and equipment
- Forests Acts
- Value addition
- Characteristics of forests

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical aspects of Competency	Assessment requires evidence that the candidate:
	1.1 Identified and classified forests
	1.2 Identified tree species
	1.3 Established and managed tree nurseries
	1.4 Transplanted seedlings
	1.5 Applied forest conservation and management policies
	1.6 Identified and applied forest conservation strategies
	1.7 Identified and utilized values of forests
	1.8 Prepared forest audit report
2. Resource Implications	The following resources should be provided:
	2.1 Access to relevant workplace or appropriately simulated environment where assessment can take place
	2.2 Materials relevant to the proposed activity or tasks
3. Methods of Assessment	Competency in this unit may be assessed through:
	3.1 Direct Observation
	3.2 Oral Questioning
	3.3 Written tests
4. Context of Assessment	Competency may be assessed:
	4.1 On-the-job
	4.2 Off-the –job
	4.3 During Industrial attachment
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.