MANAGE MARINE AND WETLAND RESOURCES

UNIT CODE: ENV/OS/MGT/CR/04/6/A

UNIT DESCRIPTION

This unit describes the competencies required to manage marine and wetland resources. It involves utilizing marine resources, managing marine protected area (MPAs), classifying wetland ecosystems, conserving and restoring wetlands.

ELEMENTS	PERFORMANCE CRITERIA	
These describe the	These are assessable statements which specify the required level of performance for each of the elements.	
key outcomes which		
make up workplace	Bold and italicized terms are elaborated in the Range.	
function.		
1. Utilize marine	1.1 Marine ecological systems is identified	
resources	1.2 Policy legislations and international conventions are	
	applied	
	1.3 Classified <i>MPAs</i>	
2. Manage marine	2.1 Threats to MPAs are identified	
protected area	2.2 Legislative and institutional framework is evaluated	
(MPAs)	2.3 MPA plan is developed	
	2.4 Communication strategy for the MPA is developed	
	2.5 MPAs are monitored and assessed	
	2.6 Community is sensitized	
	2.7 Conflicts are resolved	
3. Classify wetland	3.1 Wetlands are identified based on their aquatic	
ecosystems	ecosystems	
	3.2 Wetlands are <i>classified</i> as per the functions and values	
4. Conserve wetlands	4.1 Threats to wetlands are identified	
	4.2 Wetland <i>management plan</i> is prepared.	
	4.3 Wetland management policies and regulations are	
	applied	
	4.4 Local communities are involved in the conservation	
5. Restore wetlands	5.1 Buffer zones placement is established where protective	
	measures are needed	
	5.2 Water quality is monitored and improved	
	5.3 Community is sensitized on values and functions of	
	wetlands	
	5.4 Wetlands are monitored under long term management	

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.

1.		
1.		
	Marine ecological systems may include but not limited to:	Estuaries
		□ Mangroves
		\Box Coral reefs
		Rocky shores
2.	MPAs may include but not	□ National nature reserves
	limited to:	□ Marine national parks
		Locally managed marine areas
3.	Threats to MPAs may	
	include but not limited to:	□ Pollution
		Encroachment
		□ Climate change
		□ Sand mining
4. Wetlan	Wetlands may include but	□ Marshy
	not limited to:	□ Swampy
		□ Bog
		🗆 Fen
5. Cl	Classified may include but not limited to:	Vegetation structure and floristic
		Geomorphic
		□ Hydrology
		Dominant water sources
		□ Hydrodynamics
6.	Threats to wetlands may include but not limited to:	Climate change
		□ Human activities
		□ Invasive species
7.	Management plan may include but not limited to:	□ Baseline information
		Wetland biodiversity
		□ Monitoring and assessment

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:

- □ Conflict resolution
- □ Leadership
- □ Monitoring and evaluation
- □ Communication
- □ Decision making
- □ Sensitization
- □ Planning and organizing
- □ Problem solving

Required knowledge

The individual needs to demonstrate knowledge of:

- □ Marine ecosystem and biodiversity
- □ Resource mobilization
- □ Conservation
- □ MPA zoning
- \Box Types of wetlands
- □ Values and functions of a wetland ecosystem
- □ Hydrological cycle
- □ Wetland management planning
- □ Assessment of aquatic biodiversity
- □ Governance of wetland management
- \Box Flora and fauna
- □ Water Act and Wildlife Protection Act
- □ Policies, laws and regulations

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	Assessment requires evidence that the candidate:
Competency	1.1 Identified MPAs
	1.2 Identified Marine ecological systems
	1.3 Identified threats to MPAs
	1.4 Developed MPA plan
	1.5 Monitored and assessed MPAs
	1.6 Resolved Conflicts
	1.7 Identified and classified wetlands
	1.8 Prepared wetland management plan.
	1.9 Applied wetland management policies and regulations
	1.10 Established buffer zones placement

2. Resource	The following resource s should be provided:
Implications	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	Competency in this unit may be assessed through:
Assessment	3.1 Direct Observation
	3.2 Oral Questioning
	3.3 Written tests
4. Context of	Competency may be assessed:
Assessment	4.1 On-the-job
	4.2 Off-the –job
	4.3 During Industrial attachment
5. Guidance	Holistic assessment with other units relevant to the industry
information for	sector, workplace and job role is recommended.
assessment	