

MANAGE RANGELAND AND WILDLIFE RESOURCES

UNIT CODE: ENV/OS/MGT/CR/05/6/A

UNIT DESCRIPTION

This unit describes the competencies required to manage rangeland and wildlife resources. It involves managing rangelands resources, wildlife, human-wildlife conflicts and developing an integrated wildlife and rangeland management plan.

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. <i>Bold and italicized terms are elaborated in the Range.</i>
1. Manage rangeland resources	1.1 Rangelands are identified and classified based on their characteristics 1.2 Principles of rangeland management are applied 1.3 Stakeholders are involved in rangeland management 1.4 Zoning of rangeland resources is conducted 1.5 Soil and water conservation is performed in rangelands 1.6 Stakeholders are involved in rangeland management 1.7 Rangeland product utilization is licensed or moderated.
2. Manage wildlife	2.1 Wildlife are identified and classified based on their characteristics 2.2 Wildlife protection laws and policies are applied 2.3 Endangered species are protected 2.4 Wildlife product utilization is licensed or moderated.
3. Manage human-wildlife conflicts	3.1 Assess occurrence of conflicts between humans and wildlife 3.2 Conflict resolution strategies are determined and applied
4. Develop an integrated wildlife and rangeland management plan	4.1 Community is involved in the planning 4.2 Major conflicts in the area are identified and recorded 4.3 Resolutions are developed based on the conflicts 4.4 Management plan is developed and implemented.

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. Rangelands may include but	<input type="checkbox"/> Natural grassland

not limited to:	<input type="checkbox"/> Desert shrubland <input type="checkbox"/> Savanna woodlands <input type="checkbox"/> Forests <input type="checkbox"/> Tundra
2. Principles of rangeland management may include but not limited to:	<input type="checkbox"/> Grazing rotation <input type="checkbox"/> Crop rotation <input type="checkbox"/> Understocking <input type="checkbox"/> Irrigation
3. Stakeholders may include but not limited to:	<input type="checkbox"/> Pastoralists <input type="checkbox"/> Kenya Wildlife Service (KWS) <input type="checkbox"/> Farmers <input type="checkbox"/> Communities <input type="checkbox"/> Charcoal traders
4. Rangeland resources may include but not limited to:	<input type="checkbox"/> Minerals <input type="checkbox"/> Soil <input type="checkbox"/> Grass <input type="checkbox"/> Water <input type="checkbox"/> Shrubs <input type="checkbox"/> Trees
5. Wildlife may include but not limited to:	<input type="checkbox"/> Acacia <input type="checkbox"/> Giraffe <input type="checkbox"/> Zebras <input type="checkbox"/> Antelopes <input type="checkbox"/> Lions <input type="checkbox"/> Elephants <input type="checkbox"/> Rhino
6. Wildlife protection laws and policies may include but not limited to:	<input type="checkbox"/> Wildlife Conservation Act, 2013 <input type="checkbox"/> Water Act, 2013
7. Conflict resolution strategies may include but not limited to:	<input type="checkbox"/> Education and awareness creation <input type="checkbox"/> Livestock compensation schemes <input type="checkbox"/> Use of chain link fences in homesteads <input type="checkbox"/> Social enterprise <input type="checkbox"/> Relocation of problematic animals <input type="checkbox"/> use of livestock guarding dogs

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:

- Livestock rearing
- Observation
- Conflict resolution
- Public speaking
- Communication
- Interpersonal

Required knowledge

The individual needs to demonstrate knowledge of:

- Wildlife
- Rangelands
- Human wildlife conflicts
- Livestock wildlife conflicts
- Rangeland zoning
- Livestock production
- Conservation strategies
- Laws, policies and Acts
- Vegetation distribution
- Rotational grazing

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 rangelands 1.2 Identified and classified wildlife 1.3 Applied wildlife protection laws and policies 1.4 Conducted zoning of rangeland resources 1.5 Performed soil and water conservation in rangelands 1.6 Determined and applied conflict resolution strategies 1.7 Identified and resolved major wildlife-rangeland conflicts
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.