DEMONSTRATE ENVIRONMENTAL LITERACY

UNIT CODE: SES/OS/CS/BC/05/6/A

UNIT DESCRIPTION

This unit specifies the competencies required to demonstrate environmental literacy. It involves, controlling environmental hazard and environmental pollution, demonstrating sustainable resource use, evaluating current practices in relation to resource usage, identifying environmental legislations/conventions for environmental concerns, implementing specific environmental programs, monitoring activities on environmental protection/Programs , analyzing resource use and developing resource conservation plans

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	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
Control environmental hazard	 Storage methods for environmentally hazardous materials are strictly followed according to environmental regulations and OSHS. Disposal methods of hazardous wastes are followed according to environmental regulations and OSHS. PPE is used according to OSHS.
2. Control environmental Pollution	 2.1 Environmental pollution <i>control measures</i> are implemented in accordance with international protocols. 2.2 Procedures for solid waste management are observed according Environmental Management and Coordination Act 1999 2.3 Methods for minimizing noise pollution is complied with based on Noise and Excessive Vibration <i>Pollution and</i> Control <i>Regulations</i>, 2009
3. Demonstrate sustainable resource use	 3.1 Methods for minimizing wastage are complied with based on organizational waste management guide 3.2 Waste management procedures are employed following principles of 3Rs (Reduce, Reuse,

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			Recycle)
		3.3	Methods for economizing and reducing resource
		3.3	consumption are practiced as per the Constitution
			of Kenya 2010 Article 69.
4.	Evaluate current	4.1	
4.		4.1	Information on resource efficiency systems and
	practices in relation to		procedures are collected and provided as per work
	resource usage	4.2	groups/sector
		4.2	Current resource usage is measured and recorded as per work group
		4.3	Current purchasing strategies are analyzed and
			recorded according to industry procedures.
		4.4	Current work processes to access information and
			data is analyzed following enterprise protocol.
5	Identify environmental	5.1	Environmental legislations/conventions and local
	legislations/conventions	0.12	ordinances are identified according to the different
	for environmental		environmental aspects/impact
	concerns	5.2	Industrial standard/environmental practices are
		0.2	described according to the different environmental
			concerns
6.	Implement specific	6.1	Programs/Activities are identified according to
0.	environmental programs	0.1	organizations policies and guidelines.
	on vironina programs	6.2	Individual roles/responsibilities are
		0.2	determined and performed based on the activities
			identified.
		6.3	Problems/constraints encountered are resolved in
			accordance with organizations' policies and
			guidelines
		6.4	Stakeholders are consulted based on company
			guidelines
7.	Monitor activities on	7.1	Activities are periodically monitored and
	Environmental		Evaluated according to the objectives of the
	protection/Programs		environmental program
		7.2	Feedback from stakeholders are gathered and
			considered in Proposing enhancements to the
			program based on consultations
		7.3	Data gathered are analyzed based on Evaluation
			requirements
		7.4	Recommendations are submitted based on the
			findings
		7.5	Management support systems are set/established
			to sustain and enhance the program
		7.6	Environmental incidents are monitored and
			reported to

		7.7 concerned/proper authorities	
8.	Analyze resource use	8.1 All resource consuming processes are Identified as	
		per the organizational work plan	
		8.2 Quantity and nature of resource consumed is	
		determined based on processes	
		8.3 Resource flow is analyzed as per different parts of	
		the process.	
		8.4 Wastes are classified according to NEMA	
		regulations on waste management.	
9.	Develop resource	9.1. Efficiency of use/conversion of resources is	
	Conservation plans	determined according to industry protocol.	
		9.2. Causes of low efficiency of use of resources are	
		Determined based on industry protocol.	
		9.3. Plans for increasing the efficiency of resource use	
		are developed based on findings.	

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. PPE may include but	 Mask 	
not limited to	Gloves	
	• Goggles	
	Safety hat	
	Overall	
	Hearing protector	
2. Control measures	Methods for minimizing or stopping spread	
may include but not	and ingestion of airborne particles	
limited to	 Methods for minimizing or stopping spread 	
	and ingestion of gases and fumes	
	 Methods for minimizing or stopping spread 	
	and ingestion of liquid wastes	

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:

- Measuring
- Recording
- Analytical
- Monitoring
- Communication
- Writing

Required Knowledge

The individual needs to demonstrate knowledge of:

- PPEs
- Environmental regulations
- OSHS
- Pollution
- Waste management
- Principle of 3Rs
- Types of resources
- Techniques in measuring current usage of resources
- Environmental hazards
- Regulatory requirements

EVIDENCE GUIDE

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

		environmental incidents		
	2. Resource	The following resources should be provided:		
	Implications	2.1 Workplace with storage facilities		
		2.2 Tools, materials and equipment relevant to the tasks (e.g.		
		Cleaning tools, cleaning materials, trash bags)		
		2.3 PPE, manuals and references		
		2.4 Legislation, policies, procedures, protocols and local		
		ordinances relating to environmental protection		
		2.5 Case studies/scenarios relating to environmental Protection		
3	Methods of	Competency in this unit may be assessed through:		
	Assessment	3.1 Observation		
		3.2 Oral questioning		
		3.3 Written test		
		3.4 Portfolio of Evidence		
		3.5 Interview		
		3.6 Third party report		
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	and the second second		
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