DEMONSTRATE ENVIRONMENTAL LITERACY

UNIT CODE: ENG/OS/TEX/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 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
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 <i>Noise</i> and Excessive Vibration <i>Pollution and Control Regulations</i> , 2009
3. Demonstrate sustainable resource use	3.1 Methods for minimizing wastage are complied with based on organizational waste management guide

l	resource use		the organizational work plan
8.	Analyze	8.1	All resource consuming processes are Identified as per
<u> </u>		7.7	concerned/proper authorities
		7.6	Environmental incidents are monitored and reported to
			sustain and enhance the program
		7.5	Management support systems are set/established to
		7.4	Recommendations are submitted based on the findings
			requirements
		7.3	Data gathered are analyzed based on Evaluation
			consultations
	rams		in Proposing enhancements to the program based on
	protection/Prog	7.2	Feedback from stakeholders are gathered and considered
	Environmental		program
``	activities on	' ' '	according to the objectives of the environmental
7.	Monitor	7.1	Activities are periodically monitored and Evaluated
		6.4	
		0.3	accordance with organizations' policies and guidelines
	programs	6.3	performed based on the activities identified. Problems/constraints encountered are resolved in
	environmental programs	6.2	Individual roles/responsibilities are determined and
	specific	60	organizations policies and guidelines.
6.	Implement	6.1	Programs/Activities are identified according to
	concerns	<i>C</i> 1	concerns
	environmental		described according to the different environmental
	ventions for	5.2	Industrial standard/environmental practices are
	legislations/con		environmental aspects/impact
	environmental		ordinances are identified according to the different
5.	Identify	5.1	Environmental legislations/conventions and local
			analyzed following enterprise protocol.
		4.4	Current work processes to access information and data is
			according to industry procedures.
		4.3	Current purchasing strategies are analyzed and recorded
	_		
	resource usage		work group
	relation to	4.2	Current resource usage is measured and recorded as per
	practices in		groups/sector
''	current		procedures are collected and provided as per work
4.	Evaluate	4.1	Information on resource efficiency systems and
			Kenya 2010 Article 69.
		3.3	consumption are practiced as per the Constitution of
		3.3	principles of 3Rs (Reduce, Reuse, Recycle) Methods for economizing and reducing resource
			principles of 2Ds (Poduce Pouse Poevele)

	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	9.1. Efficiency of use/conversion of resources is determined
resource	according to industry protocol.
Conservation	9.2. Causes of low efficiency of use of resources are
plans	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
PPE may include but not limited to	 Mask Gloves Goggles Safety hat Overall
2. Control measures may include but not limited to	 Hearing protector Methods for minimizing or stopping spread and ingestion of airborne particles 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.

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1. Critical	Assessment requires evidence that the candidate:
Aspects	1.1 Controlled environmental hazard
of	1.2 Controlled environmental pollution
Compete	1.3 Demonstrated sustainable resource use
ncy	1.4 Evaluated current practices in relation to resource usage
	1.5 Demonstrated knowledge of environmental legislations and local
	ordinances according to the different environmental issues
	/concerns.
	1.6 Described industrial standard environmental practices according
	to the different environmental issues/concerns.
	1.7 Resolved problems/ constraints encountered based on
	management standard procedures
	1.8 Implemented and monitored environmental practices on a periodic
	basis as per company guidelines
	1.9 Recommended solutions for the improvement of the program
	1.10
	onitored and reported to proper authorities any environmental
	incidents

2.	Resource	The following resources should be provided:	
	Implicati ons	2.1 Workplace with storage facilities2.2 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	Competency in this unit may be assessed through:	
	of	3.1 Observation	
	Assessm	3.2 Oral questioning	
	ent	3.3 Written test	
		3.4 Portfolio of Evidence	
		3.5 Interview	
		3.6 Third party report	
4	Context	Competency may be assessed	
	of	4.1 On-the-job	
	Assessm	4.2 Off-the –job	
	ent	4.3 During Industrial attachment	
5	Guidance	Holistic assessment with other units relevant to the industry sector,	
	informati	workplace and job role is recommended.	
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