DEMONSTRATE ENVIRONMENTAL LITERACY

UNIT CODE: ENG/OS/EIT/BC/05/6/A

UNIT DESCRIPTION

This unit specifies the competencies required to follow procedures for environmental hazard control, follow procedures for environmental pollution control, comply with workplace sustainable resource use, evaluate current practices in relation to resource usage, develop and adhere to environmental protection principles/strategies/guidelines.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the
outcomes which make up	required level of performance for each of the elements.
workplace function.	Bold and italicized terms are elaborated in the Range
1. Control environmental	1.1 Storage methods for environmentally hazardous
hazard	materials are strictly followed according to
	environmental regulations and OSHS.
	1.2 <i>Disposal methods</i> of hazardous wastes are followed
	always according to environmental regulations and
	OSHS.
	1.3 PPE is used according to OSHS.
2. Control environmental	2.1 Environmental pollution <i>control measures</i> are
Pollution control	compiled following standard protocol.
	2.2 Procedures for solid waste management are
	observed according to Environmental Management
	and Coordination Act 1999
	2.3 Methods for minimizing <i>noise pollution</i> complied
	following environmental regulations.
3. Demonstrate sustainable	3.1 Methods for minimizing wastage are complied with.
resource use	3.2 Waste management procedures are employed
	following principles of 3Rs (Reduce, Reuse,
	Recycle)
	3.3 Methods for economizing or reducing resource
	consumption are practiced.
4. Evaluate current	4.1 Information on resource efficiency systems and
practices in relation to	procedures are collected and provided to the work
resource usage	group where appropriate.
	4.2 Current resource usage is measured and recorded by
	members of the work group.
	4.3 Current purchasing strategies are analyzed and
	recorded according to industry procedures.
	4.4 Current work processes to access information and

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I following enterprise protocol.
legislations/conventions and local
dentified according to the different
aspects/impact
dard/environmental practices are
ding to the different environmental
ities are identified according to
olicies and guidelines.
s/responsibilities are determined and
d on the activities identified.
raints encountered are resolved in
n organizations' policies and
e consulted based on company
eriodically monitored and evaluated
e objectives of the environmental
stakeholders are gathered and
roposing enhancements to the
on consultations
re analyzed based on evaluation
ons are submitted based on the
pport systems are set/established to
ance the program
incidents are monitored and reported
oper authorities

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 include but are not	Mask
limited to:	• Gloves
	Goggles
	Safety hat
	Overall
	Hearing protector
	Safety boots

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Environmental pollution	Methods for minimizing or stopping spread and
control measures include	ingestion of airborne particles
but are not 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
Waste management	Sorting
procedure include but are	Storing of items
not limited to:	Recycling of items
	Disposal of items
Resources may include but	Electric
are not limited to:	Water
	Fuel
	Telecommunications
	Supplies
	Materials
Workplace environmental	Biological hazards
hazards include but are not	Chemical and dust hazards
limited to:	Physical hazards
Organizational systems	Supply chain, procurement and purchasing
and procedures include but	Quality assurance
are not limited to:	Making recommendations and seeking approvals

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	Assessment requires evidence that the candidate:
of Competency	1.1 Controlled environmental hazard
	1.2 Controlled environmental pollution
	1.3 Demonstrated sustainable resource use
	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.
	2.1 Resolved problems/ constraints encountered based on
	management standard procedures
	2.2 Implemented and monitored environmental practices on a
	periodic basis as per company guidelines
	2.3 Recommended solutions for the improvement of the
	Program
	2.4 Monitored and reported to proper authorities any

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		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 (ex.	
		Cleaning tools, cleaning materials, trash bags, etc.)	
		2.3 PPE	
		2.4 Manuals and references	
		2.5 Legislation, policies, procedures, protocols and local	
		ordinances relating to environmental protection	
		2.6 Case studies/scenarios relating to environmental Protection	
3	Methods of	Competency in this unit may be assessed through:	
	Assessment	3.1 Demonstration	
		3.2 Oral questioning	
		3.3 Written examination	
		3.4 Interview/Third Party Reports	
		3.5 Portfolio (citations/awards from GOs and NGOs, certificate	
		of training – local and abroad)	
		3.6 Simulations and role-plays	
4	Context of	Competency may be assessed on the job, off the job or a	
	Assessment	combination of these. Off the job assessment must be undertaken	
		in a closely simulated workplace environment.	
5	Guidance	Holistic assessment with other units relevant to the industry	
	information for	sector, workplace and job role is recommended.	
	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:

- Following storage methods of environmentally hazardous materials
- Following disposal methods of hazardous wastes
- Using PPE
- Practicing OSHS
- Complying environmental pollution control
- Observing solid waste management
- Complying methods of minimizing noise Pollution
- Complying methods of minimizing wastage
- Employing waste management procedures
- Economizing resource consumption
- Listing of resources used
- Measuring current usage of resources
- Identifying and reporting workplace environmental hazards
- Conveying all environmental issues
- Following environmental regulations

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- Identifying environmental regulations
- Assessing procedures for assessing compliance
- Collecting information on environmental and resource efficiency systems and procedures, and Providing information to the work group
- Measuring and recording current resource usage
- Analysing and recording current purchasing strategies.
- Analysing current work processes to access information and data and Assisting identifying areas for improvement
- Analysing resource flow
- Determining efficiency of use/conversion of resources
- Determining causes of low efficiency of use
- Developing plans for increasing the efficiency of resource use
- Checking resource use plans
- Complying to regulations/licensing requirements
- Determining benefit/cost of plans
- Ranking proposals based on benefit/cost compared to limited resources
- Checking proposals meet regulatory requirements
- Monitoring implementation
- Adjusting plan and implementation
- checking new resource usage

Required Knowledge

The individual needs to demonstrate knowledge of:

- Storage methods of environmentally hazardous materials
- Disposal methods of hazardous wastes
- Usage of PPE Environmental regulations
- OSHS
- Types of pollution
- Environmental pollution control measures
- Different solid wastes
- Solid waste management
- Different noise pollution
- Methods of minimizing noise pollution
- Solid Waste Act
- Methods of minimizing wastage
- Waste management procedures
- Economizing of resource consumption
- 3Rs principle
- Types of resources
- Techniques in measuring current usage of resources
- Calculating current usage of resources
- Types of workplace environmental hazards
- Environmental regulations
- Environmental regulations applying to the enterprise.

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- Procedures for assessing compliance with environmental regulations.
- Collection of information on environmental and resource efficiency systems and procedures,
- Measurement and recording of current resource usage
- Analysis and recording of current purchasing strategies.
- Analysis current work processes to access information and data Analysis of data and information
- Identification of areas for improvement
- Resource consuming processes
- Determination of quantity and nature of resource consumed
- Analysis of resource flow of different parts of the resource flow process
- Use/conversion of resources
- Causes of low efficiency of use
- Increasing the efficiency of resource use
- Inspection of resource use plans
- Regulations/licensing requirements
- Determine benefit/cost for alternative resource sources
- Benefit/costs for different alternatives
- Components of proposals
- Criteria on ranking proposals
- Regulatory requirements
- Proposals for improving resource efficiency
- Implementation of resource efficiency plans
- Procedures in monitor implementation
- Adjustments of implementation plan
- Inspection of new resource usage

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