DEMONSTRATE ENVIRONMENTAL LITERACY

UNIT CODE: CON/OS/ARC/BC/06/5/A

UNIT DESCRIPTION

This unit describes the competencies required to demonstrate understanding of environmental literacy. It involves controlling environmental hazard, controlling control environmental pollution, complying with workplace sustainable resource use, evaluating current practices in relation to resource usage, identifying environmental legislations/conventions for environmental concerns, implementing specific environmental programs and monitoring activities on environmental protection/programs.

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
1. Control	1.1 Storage methods for environmentally hazardous
environmental	materials are strictly followed according to
hazard	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	2.1 Environmental pollution <i>control measures</i> are
environmental	compiled following standard protocol.
Pollution control	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> is
	complied with based on <i>Noise</i> and Excessive
	Vibration Pollution and Control Regulations,
	2009
3. Demonstrate	3.1 Methods for minimizing wastage are complied
sustainable resource	with.
use	3.2 Waste management procedures are employed

		following principles of 3Rs (Reduce, Reuse,
		Recycle)
	3.3	Methods for economizing and reducing resource
		consumption are practiced as per the
		Environmental Management and Coordination Act
		1999
4. Evaluate current	4.1	Information on resource efficiency systems and
practices in relation		procedures are collected and provided to the work
to 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
		data is analyzed following enterprise protocol.
5. Identify	5.1	Environmental <i>legislations/conventions</i> and local
Environmental		ordinances are identified according to the different
legislations/convent		environmental aspects/impact
ions for	5.2	Industrial standard/environmental practices are
environmental		described according to the different environmental
concerns		concerns
6. Implement specific	6.1	Programs/Activities are identified according to
environmental		organizations policies and guidelines.
programs	6.2	Individual roles/responsibilities are
	(determined and performed based on the activities identified.
	6.3	Problems/constraints encountered are resolved in
	0.5	accordance with organizations' policies and
		guidelines
	6.4	Stakeholders are consulted based on company
		guidelines
7. Monitor activities	7.1	Activities are periodically monitored and
on 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 concerned/proper 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 may include but not limited to:	 Mask Gloves Goggles Safety hat Overall Hearing protector Safety boots
2. Environmental pollution control measures may include but not limited to:	 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
3. Waste management procedures may include but not limited to:	
4. Resources may include but not limited to:	 Electric Water Fuel Telecommunications Supplies Materials
5. Workplace environmental hazards may includ but not limited to:	 Biological hazards Chemical and dust hazards Physical hazards

6.	Organizational
	systems and
	procedures may
	include but not
	limited to:

- Supply chain, procurement and purchasing
- Quality assurance
- Making recommendations and seeking approvals

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:

- Observation
- Measuring
- Writing
- Communication
- Analytical
- Monitoring
- Evaluation

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.
- Measurement and recording of current resource usage
- 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

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	Assessment requires evidence that the candidate:
Aspects of	1.1 Controlled environmental hazard
Competency	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.
		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 Monitored and reported to proper authorities any
		environmental incidents
2. Re	source	The following resources should be provided:
Im	plications	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. Me	ethods of	Competency in this unit may be assessed through:
As	sessment	3.1 Observation
		3.2 Oral questioning
		3.3 Written test
		3.4 Interview/Third Party Reports
		3.5 Portfolio of evidence
4. Co	ontext of	Competency may be assessed:
As	sessment	4.1 On-the-job
		4.2 Off-the –job
		4.3 During Industrial attachment
5. Gu	iidance	Holistic assessment with other units relevant to the industry
inf	formation	sector, workplace and job role is recommended.
for	•	
ass	sessment	