ENVIRONMENTAL LITERACY

UNIT CODE: MATH/CU/AS/BC/06/6/A

Relationship to Occupational Standards:

This unit addresses the Unit of Competency: Demonstrate Environmental Literacy

Duration of Unit: 40 hours

Unit Description

This unit describes the competencies required demonstrate environmental literacy.it involves controlling environmental hazard, controlling 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, monitoring activities on environmental protection/programs, analysing resource use and developing resource conservation plans.

Summary of Learning Outcomes

- 1. Control environmental hazard
- 2. Control environmental Pollution
- 3. Demonstrate sustainable resource use
- 4. Evaluate current practices in relation to resource usage
- 5. Identify Environmental legislations/conventions for environmental concerns
- 6. Implement specific environmental programs
- 7. Monitor activities on Environmental protection/Programs
- 8. Analyze resource use
- 9. Develop resource conservation plans

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods	
1. Control environmental	Purposes and content of	• Written	
hazard	Environmental Management and Coordination Act 1999	questions	
	Storage methods for	Oral questions	
	environmentally hazardous		
	materials Disposal methods of hezerdous		
	 Disposal methods of hazardous wastes 		

Control environmental Pollution control	 Types and uses of PPE in line with environmental regulations Occupational Safety and Health Standards (OSHS) Types of pollution Environmental pollution control measures Types of solid wastes Procedures for solid waste management Different types of noise pollution Methods for minimizing noise pollution 	 Written questions Oral questions Role play
3. Demonstrate sustainable resource use	 Types of resources Techniques in measuring current usage of resources Calculating current usage of resources Methods for minimizing wastage Waste management procedures Principles of 3Rs (Reduce, Reuse, Recycle) Methods for economizing or reducing resource consumption 	 Written questions Oral questions Role play
Evaluate current practices in relation to resource usage Identify Environmental	 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 of current work processes to access information and data Identification of areas for improvement Environmental issues/concerns 	 Written questions Oral questions Role play
legislations/conventions	Environmental issues/concerns	 Written questions Oral questions

for environmental	Environmental legislations	
concerns	/conventions and local	
Concerns		
	ordinances	
	Industrial standard	
	/environmental practices	
	 International Environmental 	
	Protocols (Montreal, Kyoto)	
	 Features of an environmental 	
	strategy	
6. Implement specific	Community needs and	Written questions
environmental	expectations	Oral questions
programs	Resource availability	Role play
	• 5s of good housekeeping	role play
	Identification of	
	programs/Activities	
	Setting of individual roles (rosp a politities)	
	/responsibilities	
	Resolving problems /constraints	
	encountered	
	Consultation with stakeholders	
7. Monitor activities on	Periodic monitoring and	 Oral questions
Environmental	Evaluation of activities	• Written tests
protection/Programs	 Gathering feedback from 	 Practical test
	stakeholders	
	 Analyzing data gathered 	
	 Documentation of 	
	recommendations and	
	submission	
	Setting of management support	
	systems to sustain and enhance	
	the program	
	Monitoring and reporting of	
	environmental incidents to	
	concerned /proper authorities	
8. Analyze resource use	Identification of resource	Written tests
o. Timiny zo resource use	consuming processes	
		Oral questions Practical test
	Determination of quantity and nature of resource consumed	Practical test
	Analysis of resource flow	
	through different parts of	
	the process.	

		 Classification of wastes for possible source of resources. 		
9.	Develop resource Conservation plans	 Determination of efficiency of use/conversion of resources Causes of low efficiency of use of resources Plans for increasing the efficiency of resource use 	•	Written tests Oral questions Practical test

Suggested Methods of Instruction

- Instructor led facilitation of theory
- Practical demonstration of tasks by trainer
- Practice by trainees
- Observations and comments and corrections by trainers

Recommended Resources

- Standard operating and/or other workplace procedures manuals
- Specific job procedures manuals
- Environmental Management and Coordination Act 1999
- Machine/equipment manufacturer's specifications and instructions
- Personal Protective Equipment (PPE)
- ISO standards
- Company environmental management systems (EMS)
- Montreal Protocol
- Kyoto Protocol