ENVIRONMENTAL LITERACY

UNIT CODE: ENG/CU/AUT/BC/5/6

Relationship to Occupational Standards:

This unit addresses the unit of competency and meets the requirements specified by the Occupational Standards: **Demonstrate environmental literacy**

Duration of Unit: 60 hours

Unit Description

This unit describes the competencies required to control environmental hazard, control environmental pollution, comply with workplace sustainable resource use, evaluate current practices in relation to resource usage, identify environmental legislations/conventions for environmental concerns, implement specific environmental programs, monitor activities on environmental protection/programs, analyze resource use and develop 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 questions
hazard	Environmental Management	• Oral
	and	questions
	Coordination Act	Observation of
	1999	work procedures
	• Storage methods for	
	environmentally hazardous	
	materials	
	• Disposal methods of	
	hazardous wastes	

	 Types and uses of PPE in line with environmental regulations Occupational Safety and Health Standards (OSHS) 	
2. Control environmental Pollution control	 Types of pollution Environmental pollution control measures Types of solid wastes Procedures for solid waste management Different types of noise pollution Methods for 	 Written questions Oral questions Observation of work procedures Role play

Learning Outcome	Content	Suggested Assessment Methods
	minimizing noise pollution	
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 Observation of work procedures Role play
4. Evaluate current practices in relation to resource usage	 Collection of information on environmental and resource efficiency systems and procedures, Measurement and recording of current 	 Written questions Oral questions Observation of work procedures Role play

Learning Outcome	Content	Suggested Assessment Methods
	 resource usage Analysis and recording of current purchasing strategies. Analysis of current work processes to access information and data Identification of areas for improvement 	
5. Identify Environmental legislations/conventions for environmental concerns	 Environmental issues/concerns Environmental legislations /conventions and local ordinances Industrial standard /environmental practices International Environmental Protocols (Montreal, Kyoto) Features of an environmental strategy 	 Written questions Oral questions Observation of work procedures

Learning Outcome	Content	Suggested
		Assessment
		Methods
6. Implement specific	Community needs and	• Written
environmental programs	expectations	questions
	Resource availability	• Oral
	• 5s of good housekeeping	questions
	• Identification of	Observation of
	programs/Activities	work
	• Setting of individual	procedures
	roles	• Role play
	/responsibilities	
	Resolving problems	
	/constraints encountered	

	Consultation with stakeholders	
7. Monitor activities on Environmental protection/Programs	 Periodic monitoring and Evaluation of activities Gathering feedback from stakeholders Analysing data gathered Documentation of recommendations and submission Setting of management support systems to sustain 	 Oral questions Written tests Practical test Observation

Learning Outcome	Content	Suggested Assessment Methods
8. Analyze resource use	 and enhance the program Monitoring and reporting of environmental incidents to concerned /proper authorities Identification of resource consuming processes Determination of quantity and nature of resource consumed Analysis of resource flow through different parts of the process. Classification of wastes for possible source of resources. 	 Written tests Oral questions Practical test Observation
9. Develop resource Conservation plans	 Determination of efficiency of use/conversion of resources Causes of low efficiency of use of 	 Written tests Oral questions Practical test Observation
Learning Outcome	Content	Suggested Assessment Methods
	resources Plans for increasing the efficiency of resource use	

Suggested Delivery Methods

- 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

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