ENVIRONMENTAL LITERACY

UNIT CODE: CON/CU/ARC/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	
Learning Outcome	Content	Assessment Methods	
1. Control environmental	Purposes and content of	Written questions	
hazard	Environmental Management and	 Oral questions 	
	Coordination Act 1999		
	 Storage methods for 		
	environmentally hazardous		
	materials		

Control environmental Pollution control Demonstrate systemable	 Disposal methods of hazardous wastes 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 questionsOral questionsRole 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 resource usage Analysis and recording of current purchasing strategies. Analysis of current work processes to access information and data 	Written questionsOral questionsRole play

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	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 questionsOral questions
6. Implement specific environmental programs	 Community needs and expectations Resource availability 5s of good housekeeping Identification of programs/Activities Setting of individual roles /responsibilities Resolving problems /constraints encountered Consultation with stakeholders 	 Written questions Oral questions Role play
7. Monitor activities on Environmental protection/Programs	 Periodic monitoring and Evaluation of activities Gathering feedback from 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 	 Oral questions Written tests Practical test

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8.	Analyze resource use	Identification of resource	•	Written tests
		consuming processes	•	Oral questions
		 Determination of quantity and 	•	Practical test
		nature of resource consumed		
		 Analysis of resource flow 		
		through different parts of the		
		process.		
		 Classification of wastes for 		
		possible source of resources.		
9.	Develop resource	Determination of efficiency of	•	Written tests
	Conservation plans	use/conversion of resources	•	Oral questions
		 Causes of low efficiency of use 	•	Practical test
		of resources		
		 Plans for increasing the 		
		efficiency of resource use		
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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

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