

## ENVIRONMENTAL LITERACY

**UNIT CODE:**ENG/CU/EI/BC/05/4/A

### Relationship to Occupational Standards

This unit addresses the unit of competency: Demonstrate environmental literacy

**Duration of Unit:** 20 hours

### Unit Description

This unit describes the competencies required to control environmental hazard, control environmental pollution, comply with workplace sustainable resource use and evaluate current practices in relation to resource usage.

### 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

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Control environmental hazard	<ul style="list-style-type: none"><li>• Purposes and content of Environmental Management and Coordination Act 1999</li><li>• Purposes and content of Solid Waste Act</li><li>• Storage methods for environmentally hazardous materials</li><li>• Disposal methods of hazardous wastes</li><li>• Types and uses of PPE in line with environmental regulations</li><li>• Occupational Safety and Health Standards (OSHS)</li></ul>	<ul style="list-style-type: none"><li>• Written questions</li><li>• Oral questions</li><li>• Observation of work procedures</li></ul>
2. Control environmental	<ul style="list-style-type: none"><li>• Types of pollution</li></ul>	<ul style="list-style-type: none"><li>• Written questions</li></ul>

Pollution control	<ul style="list-style-type: none"> <li>• Environmental pollution control measures</li> <li>• Types of solid wastes</li> <li>• Procedures for solid waste management</li> <li>• Different types of noise pollution</li> <li>• Methods for minimizing noise pollution</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Observation of work procedures</li> <li>• Role play</li> </ul>
3. Demonstrate sustainable resource use	<ul style="list-style-type: none"> <li>• Types of resources</li> <li>• Techniques in measuring current usage of resources</li> <li>• Calculating current usage of resources</li> <li>• Methods for minimizing wastage</li> <li>• Waste management procedures</li> <li>• Principles of 3Rs (Reduce, Reuse, Recycle)</li> <li>• Methods for economizing or reducing resource consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Written questions</li> <li>• Oral questions</li> <li>• Observation of work procedures</li> <li>• Role play</li> </ul>
4. Evaluate current practices in relation to resource usage	<ul style="list-style-type: none"> <li>• Collection of information on environmental and resource efficiency systems and procedures,</li> <li>• Measurement and recording of current resource usage</li> <li>• Analysis and recording of current purchasing strategies.</li> <li>• Analysis of current work processes to access information and data</li> <li>• Identification of areas for improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Written questions</li> <li>• Oral questions</li> <li>• Observation of work procedures</li> <li>• Role play</li> </ul>
5. Identify Environmental legislations/conventions for environmental concerns	<ul style="list-style-type: none"> <li>• Environmental issues/concerns</li> <li>• Environmental legislations /conventions and local ordinances</li> <li>• Industrial standard /environmental practices</li> <li>• International Environmental Protocols (Montreal, Kyoto)</li> <li>• Features of an environmental strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Written questions</li> <li>• Oral questions</li> <li>• Observation of work procedures</li> </ul>

### Suggested Delivery Methods

- Instructor led facilitation of theory

- Practical demonstration of tasks by trainer
- Practice by trainees/ role play
- Discussion
- Observations and comments and corrections by trainers

### **Recommended Resources**

- Standard operating and/or other workplace procedures manuals
- Specific job procedures manuals
- Solid Waste Act
- Environmental Management and Coordination Act 1999
- Machine/equipment manufacturer's specifications and instructions
- Personal Protective Equipment (PPE)

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