

## ENVIRONMENTAL LITERACY

**UNIT CODE:ENG/CU/EI/BC/05/5**

### 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, evaluate current practices in relation to resource usage, identify environmental legislations/conventions for environmental concerns, implement specific environmental programs and monitor activities on environmental protection/programs.

### 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

### Learning Outcomes, Content and Suggested Assessment Methods

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

<p>2. Control environmental Pollution control</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Types of pollution</li> <li><input type="checkbox"/> Environmental pollution control measures</li> <li><input type="checkbox"/> Types of solid wastes</li> <li><input type="checkbox"/> Procedures for solid waste management</li> <li><input type="checkbox"/> Different types of noise pollution</li> <li><input type="checkbox"/> Methods for minimizing noise pollution</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Written questions</li> <li><input type="checkbox"/> Oral questions</li> <li><input type="checkbox"/> Observation of work procedures</li> <li><input type="checkbox"/> Role play</li> </ul>
<p>3. Demonstrate sustainable resource use</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Types of resources</li> <li><input type="checkbox"/> Techniques in measuring current usage of resources</li> <li><input type="checkbox"/> Calculating current usage of resources</li> <li><input type="checkbox"/> Methods for minimizing wastage</li> <li><input type="checkbox"/> Waste management procedures</li> <li><input type="checkbox"/> Principles of 3Rs (Reduce, Reuse, Recycle)</li> <li><input type="checkbox"/> Methods for economizing or reducing resource consumption</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Written questions</li> <li><input type="checkbox"/> Oral questions</li> <li><input type="checkbox"/> Observation of work procedures</li> <li><input type="checkbox"/> Role play</li> </ul>
<p>4. Evaluate current practices in relation to resource usage</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Collection of information on environmental and resource efficiency systems and procedures,</li> <li><input type="checkbox"/> Measurement and recording of current resource usage</li> <li><input type="checkbox"/> Analysis and recording of current purchasing strategies.</li> <li><input type="checkbox"/> Analysis of current work processes to access information and data</li> <li><input type="checkbox"/> Identification of areas for improvement</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Written questions</li> <li><input type="checkbox"/> Oral questions</li> <li><input type="checkbox"/> Observation of work procedures</li> <li><input type="checkbox"/> Role play</li> </ul>
<p>5. Identify Environmental legislations/conventions for environmental concerns</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Environmental issues/concerns</li> <li><input type="checkbox"/> Environmental legislations /conventions and local ordinances</li> <li><input type="checkbox"/> Industrial standard /environmental practices</li> <li><input type="checkbox"/> International Environmental Protocols (Montreal, Kyoto)</li> <li><input type="checkbox"/> Features of an environmental strategy</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Written questions</li> <li><input type="checkbox"/> Oral questions</li> <li><input type="checkbox"/> Observation of work procedures</li> </ul>
<p>6. Implement specific environmental programs</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Community needs and expectations</li> <li><input type="checkbox"/> Resource availability</li> <li><input type="checkbox"/> 5 s of good housekeeping</li> <li><input type="checkbox"/> Identification of programs/Activities</li> <li><input type="checkbox"/> Setting of individual roles</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Written questions</li> <li><input type="checkbox"/> Oral questions</li> <li><input type="checkbox"/> Observation of work procedures</li> <li><input type="checkbox"/> Role play</li> </ul>

	/responsibilities <input type="checkbox"/> Resolving problems /constraints encountered <input type="checkbox"/> Consultation with stakeholders	
7. Monitor activities on Environmental protection/Programs	<input type="checkbox"/> Periodic monitoring and Evaluation of activities <input type="checkbox"/> Gathering feedback from stakeholders <input type="checkbox"/> Analysing data gathered <input type="checkbox"/> Documentation of recommendations and submission <input type="checkbox"/> Setting of management support systems to sustain and enhance the program <input type="checkbox"/> Monitoring and reporting of environmental incidents to concerned /proper authorities	<input type="checkbox"/> Oral questions <input type="checkbox"/> Written tests <input type="checkbox"/> Practical test <input type="checkbox"/> Observation

### Suggested Delivery Methods

- Instructor led facilitation of theory
- Demonstration by trainer
- Practical work by trainee
- Viewing of related videos

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### 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
- Ccompany environmental management systems (EMS)
- Montreal Protocol
- Kyoto Protocol