

ENVIRONMENTAL LITERACY

UNIT CODE: CON/CU/PL/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 specifies the competencies required to demonstrate environmental literacy. It involves controlling environmental hazard, controlling environmental pollution, demonstrating sustainable resource use and evaluating current practices in relation to resource usage.

Summary of Learning Outcomes

1. Control environmental hazard
2. Control environmental pollution
3. Demonstrate sustainable use of resources
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">• Purposes and content of Environmental Management and Coordination Act 1999• Purposes and content of Solid Waste Act• Storage methods for environmentally hazardous materials• Disposal methods of hazardous wastes | <ul style="list-style-type: none">• Written tests• Oral questions• Observation of work procedures |

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| | <ul style="list-style-type: none"> • Types and uses of PPE in line with environmental regulations • Occupational Safety and Health Standards (OSHS) | |
| 2. Control environmental Pollution | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Written tests • Oral questions • Observation of work procedures • Role play |
| 3. Demonstrate sustainable resource use | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Written tests • Oral questions • Observation of work procedures |
| 4. Evaluate current practices in relation to resource usage | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Written tests • Oral questions • Observation of work procedures |

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| | <ul style="list-style-type: none"> • Identification of areas for improvement | |
| 5. Identify Environmental legislations/conventions for environmental concerns | <ul style="list-style-type: none"> • Environmental issues/concerns • Environmental legislations /conventions and local ordinances • Industrial standard /environmental practices • International Environmental Protocols (Montreal, Kyoto) • Features of an environmental strategy | <ul style="list-style-type: none"> • Written tests • Oral questions • Observation of work procedures |

Suggested Methods of Instructions

- 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

- Computers
- Stationery
- Charts
- Video clips
- Audio tapes
- Radio sets
- TV sets
- LCD projectors
- Standard operating and/or other workplace procedures manuals
- Specific job procedures manuals
- Machine/equipment manufacturer's specifications and instructions
- Personal Protective Equipment (PPE)