

APPLY ENVIRONMENTAL LITERACY

UNIT CODE: 0712 541 03A

UNIT DESCRIPTION

This unit covers the competencies required to apply environmental literacy. It involves controlling environmental hazards, controlling environmental pollution, managing environmental waste and practicing sustainable resource use.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function.(tasks)	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the Range</i>
1. Control environmental hazards	1.1 <i>PPEs</i> are identified and used as per work procedure. 1.2 <i>Hazardous wastes</i> are stored as per the Environmental Management and Coordination Act. 1.3 Hazardous wastes are disposed in accordance with the EMCA.
2. Control environmental Pollution	2.1 <i>Water pollutants</i> are controlled as per the EMCA. 2.2 <i>Land pollutants</i> are controlled in accordance with EMCA. 2.3 <i>Noise pollution sources</i> are controlled as per the EMCA. 2.4 <i>Air pollutants</i> are controlled as per the EMCA
3. Manage environmental waste	3.1 Waste is refused in accordance with Sustainable Waste Management Act. 3.2 Waste is reduced as per the Sustainable Waste Management Act. 3.3 Waste is reused as per Sustainable Waste Management Act. 3.4 Waste is segregated as per different waste streams in line with Sustainable Waste Management Act. 3.5 Waste is recycled in line with Sustainable Waste Management Act. 3.6 Waste is treated as per Industrial standards operating procedures. 3.7 Waste is disposed in accordance with Sustainable Waste Management Act.

4. Practice sustainable resource use	<p>4.1 Resources categorization is performed based on EMCA.</p> <p>4.2 Resource inventory is developed as per EMCA.</p> <p>4.3 Resource usage is monitored as per working procedure.</p> <p>4.4 Resource wastage minimization is identified as per work environment.</p> <p>4.5 Environmental conservation measures are identified as per work environment.</p>
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RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. PPEs may include but are not limited to:	<ul style="list-style-type: none"> • Mask • Gloves • Goggles • Helmets • Protective clothing • Hearing protector • Safety boots
2. Hazardous waste may include but are not limited to:	<ul style="list-style-type: none"> • Explosives • Flammable liquids • Flammable solids and substances • Oxidizing substances and organic peroxides • Toxic and infectious substances • Radioactive materials • Corrosive substances
3. Water pollutants may include but not limited to:	<ul style="list-style-type: none"> • Industrial waste • Sewage • Wastewater • Mining activities • Marine Dumping • Oil leakages • Burning fossil fuels • Chemical fertilizers • Pesticides • Herbicides • Detergents

4. <i>Land pollutants</i> may include but not limited to:	<ul style="list-style-type: none"> • Plastics • Papers • Scrap metals and chips • Wooden chips • Clothes • Grease • Oil • Animal waste
5. <i>Noise pollution sources</i> may include but not limited to:	<ul style="list-style-type: none"> • Air traffic • Construction sites • Bars and restaurants • Night clubs • Machinery • Vehicles • Industries
6. <i>Air pollutants</i> may include but not limited to:	<ul style="list-style-type: none"> • Carbon dioxide • Carbon monoxide • Oxides of Sulphur • Oxides of nitrogen • Volatile organic hydrocarbons • Methane • Ozone
7. <i>Resources</i> may include but not limited to:	<ul style="list-style-type: none"> • Natural resources • Human resources • Environmental resources • Mineral resources • Water resources • Vegetation resources
8. <i>Resource wastage minimization</i> may include but not limited to:	<ul style="list-style-type: none"> • Resources reuse • Resources recycle • Quality control improvement • Process monitoring • Optimization of resources
9. <i>Environmental conservation measures</i> may include but are not limited to:	<ul style="list-style-type: none"> • Green energy technologies • Tree planting • Public awareness and sensitization • Waste management • Ecosystems conservation • Energy conservation

Required knowledge and skills

This section describes the knowledge and skills required for this unit of competency.

Required Knowledge

The individual needs to demonstrate knowledge of:

- Types and use of PPEs
- Environmental pollution control measures
- 10Rs principles
- Workplace environmental hazards
- Environmental regulations
- Environmental conservation activities

Required Skills

The individual needs to demonstrate the following skills:

- Analytical
- Problem solving
- Planning
- Conflict resolution
- Communication

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills and range.

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 PPEs are identified and used as per work procedure. 1.2 Waste is segregated as per different waste streams in line with Sustainable Waste Management Act. 1.3 Resource inventory is developed as per EMCA. 1.4 Resource wastage minimization is identified as per work environment. 1.5 Environmental conservation measures are identified as per work environment.
2. Resource Implications	The following resources should be provided: 2.1 Appropriately simulated environment where assessment can take place. 2.2 Access to relevant assessment environment. 2.3 Resources relevant to the proposed assessment activity or tasks.
2 Methods of Assessment	Competency in this unit may be accessed through: 2.1 Practical 2.2 Project

	2.3 Portfolio of evidence 2.4 Third party report 2.5 Written tests 2.6 Oral Questioning
3 Context of Assessment	This competency may be assessed in a work place or in an assimilated work place
4 Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended