

## PERFORM ENVIRONMENTAL HEALTH AND SAFETY PRACTICES

ISCED UNIT CODE: 0521 451 06A

TVET CDACC UNIT CODE: ENV/OS/ENT/CC/02/5/MA

### UNIT DESCRIPTION

This unit covers the competencies required to perform Environmental health and safety practices it involves performing hazard identification, assessing environmental health and safety risks, managing environmental health and safety risks and creating environmental health and safety awareness.

### ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace functions	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. Perform hazard identification	1.1 Potential environmental health and safety hazards are identified as per EMCA Cap 387 1.2 Potential Environmental health and safety hazards are categorized as per EMCA Cap 387 1.3 Environmental health and safety hazards are prioritized as per EMCA Cap 387
2. assess environmental health and safety risks	2.1 Environmental health and safety risks are identified based on EMCA Cap 387. 2.2 Environmental health and safety risks are prioritized as per EMCA Cap 387. 2.3 <b><i>Environmental health and safety risks</i></b> are evaluated as per Occupational Health and Safety Act, 2007. 2.4 <b><i>Environmental health and safety risks precaution decisions</i></b> are carried out as per Occupational Health and Safety Act, 2007.
3. Manage environmental health and safety risks	3.1 Environmental hazard <b><i>Hierarchy of controls</i></b> is implemented as per EMCA 387 3.2 Environmental Protection measures are mobilized as per work requirements. 3.3 Environmental Health and Safety Policies are implemented as per work procedures. 3.4 <b><i>Environmental health and safety risk emergency response measures</i></b> are implemented as per EMCA CAP 387; Work Injury Benefit Act, 2007.
4. Create environmental health and Safety Awareness	4.1 Environmental health and safety committee is constituted as per EMCA Cap 387 OSHA,2007 4.2 Environmental hazards and risks exposure data is determined as per work procedures

	4.3 Environmental health and safety awareness is carried out as per work procedures.
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## RANGE

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

Variable	Range
2. Environmental health and safety risks may include, but are not limited to:	<ul style="list-style-type: none"> <li>• Chemical Hazards</li> <li>• Physical Hazards</li> <li>• Air Quality Hazard</li> <li>• Water Quality Hazards</li> <li>• Fire and Explosion Hazard</li> <li>• Climate-Related Hazards</li> </ul>
3. Environmental health and safety risks precaution decisions may include but are not limited to	<ul style="list-style-type: none"> <li>• Risk Assessment</li> <li>• Precautionary Decisions</li> <li>• Continuous Monitoring and Improvement</li> <li>• Regulatory Compliance</li> <li>• Documentation and Record-Keeping</li> </ul>
4. Hierarchy of controls may include but are not limited to	<ul style="list-style-type: none"> <li>• Elimination/Substitution</li> <li>• Engineering Controls</li> <li>• Administrative Controls</li> <li>• Personal Protective Equipment</li> </ul>
5. Environmental health and safety risk emergency response measures may include but are not limited to	<ul style="list-style-type: none"> <li>• Identify Potential Risks</li> <li>• Develop Emergency Response Plans</li> <li>• Training and Education</li> <li>• Emergency Communication</li> <li>• Fire Safety and Evacuation</li> </ul>
6. Environmental health and safety awareness may include but are not limited to	<ul style="list-style-type: none"> <li>• Safety Protocols and Procedures</li> <li>• Training and Education</li> <li>• Compliance with Regulations</li> <li>• Environmental Awareness</li> <li>• Continuous Improvement</li> </ul>

## 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:

- Environmental hazards identification

- Environmental health and safety risks evaluation
- Control and mitigation of environmental hazards
- Types of PPEs
- Correct use of PPEs

### **Required skills**

The individual needs to demonstrate the following skills:

- Analytical
- Problem solving
- Planning
- Monitoring
- Evaluation
- Negotiation
- Interpersonal
- Conflict resolution
- Communication
- Presentation
- Numeracy
- Observation
- Negotiation
- Digital literacy
- Equipment calibration

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### **EVIDENCE GUIDE**

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

1. Critical aspects of competency	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Prioritized environmental health and safety hazards as per EMCA Cap 387</li> <li>1.2 Evaluated environmental health and safety risks as per Occupational Health and Safety Act, 2007.</li> <li>1.3 Carried out environmental health and safety risks precaution decisions as per Occupational Health and Safety Act, 2007.</li> <li>1.4 Implemented environmental hazard Hierarchy of controls as per EMCA 387</li> <li>1.5 Implemented environmental Health and Safety Policies were as per work procedures.</li> <li>1.6 Carried out environmental health and safety awareness</li> <li>1.7 as per work procedures.</li> </ul>
2. Resource implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 appropriately simulated environment where assessment can take place</li> <li>2.2 Access to a relevant workplace</li> <li>2.3 Relevant to the proposed activity or tasks</li> </ul>
8. Methods of assessment	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> <li>3.1 Observation</li> <li>3.2 Written assessment</li> <li>3.3 Portfolio of Evidence</li> <li>3.4 Interview</li> <li>3.5 Third party report</li> </ul>
9. Context of assessment	<p>Competency may be assessed:</p> <ul style="list-style-type: none"> <li>4.1 Workplace</li> <li>4.2 Simulated work environment</li> </ul>
10. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector and workplace job role is recommended.</p>