



Australian Government

DEFPH003A Operate environmental measuring devices

Release: 2

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Modification History

Release	TP Version	Comments
2	DEF12V2	Layout adjusted. No changes to content.
1	DEF12V1	Primary release.

Unit Descriptor

This unit covers the competency required to operate environmental measuring devices within the Australian Defence Force (ADF).

Application of the Unit

The application of this unit in the workplace includes operating *environmental measuring devices* to record environmental conditions, interpreting measurements against organisational health stress guidelines, and providing accurate advice to commanders regarding physical activity levels and work/rest ratios to minimise the risk of heat injury to organisational participants.

This unit of competency is applicable to preventive medicine personnel. This function is limited to the performance of tasks in accordance with organisational policies and procedures.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element.

Where ***bold italicised*** text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Set up environmental measuring device	<p>1.1 Device is prepared in accordance with operating instructions.</p> <p>1.2 Device is positioned in an area to optimise its function and accuracy of measurement.</p> <p>1.3 Device is checked for serviceability and correct function.</p> <p>1.4 Device found to be not functioning correctly is referred for repair action.</p>
2. Take measurements using environmental measuring device	<p>2.1 Settings are confirmed to enable desired measurement to be acquired in accordance with operating instructions.</p> <p>2.2 Data is measured in accordance with <i>organisational policies and procedures</i>.</p> <p>2.3 Data is transferred to computing platform for interpretation, using thermal environment monitoring systems.</p>
3. Interpret and report data acquired from environmental measuring device	<p>3.1 Data is interpreted against organisational heat stress guidelines to identify desired work/rest activity levels and required hydration level.</p> <p>3.2 Data is recorded in accordance with organisational policies and procedures.</p> <p>3.3 Environmental conditions report is drafted and reported to <i>relevant persons</i> including recommendations on work/rest activity levels and required hydration level.</p>
4. Refurbish environmental measuring device	<p>4.1 Device is cleaned and disassembled in accordance with operating instructions.</p> <p>4.2 Device is inspected for repair action in accordance with organisational policies and procedures.</p> <p>4.3 Device is stored to enable it to be available for use on the next desired opportunity.</p>

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- follow operating instructions for environmental measuring devices

- interpret environmental data to draw conclusions
- operate a laptop computer
- operate computer based thermal environmental monitoring systems
- prioritise tasking
- set up, operate and disassemble environmental measuring devices

Required Knowledge

- best use of available resources
- causes of manpower wastage
- documentation processes relevant to own workplace
- health surveillance system
- impact of the environment on human performance
- operating instructions for environmental measuring devices
- organisational policies and procedures
- relationship between heat/humidity and hydration
- time management strategies to set priorities
- weather systems and patterns

Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to:

- prepare environmental measuring devices in accordance with manufacturers' instructions
- undertake measurements that include temperature, humidity and heat stress index

Consistency in performance

Competency should be demonstrated over a minimum of two assessment occasions.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in an actual workplace situation or in a simulated situation or scenario.

Specific resources for assessment

Access is required to:

- environmental measuring devices
- organisational policies and procedures

Range Statement

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

<p><i>Environmental measuring devices</i> may include:</p>	<ul style="list-style-type: none"> • Altimeter • Heat stress monitor • Humidity meter • Microwave oven radiation leakage detection device • Temperature probe
<p><i>Organisational policies and procedures</i> may include:</p>	<ul style="list-style-type: none"> • Codes of ethics • Codes of practice • Environmental health policy • Health and hygiene guidelines • Health surveillance policy documents • Industry professional body standards • Industry standards (state/territory and national) • Organisational health policy directives • Relevant Australian Standards • Relevant Commonwealth Acts • Workplace safety guidelines
<p><i>Relevant persons</i> may include:</p>	<ul style="list-style-type: none"> • Activity commander • Environmental health officer • Team leader • Technical supervisor

Unit Sector(s)

Not applicable.