



Australian Government

Department of Education, Employment and Workplace Relations

DEFCA203B Produce meteorological data

Release: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to produce meteorological data in terms of likely weather conditions in areas, which are to be used for operations. The operator will work as part of a team under supervision.

Application of the Unit

Application of the Unit

The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s

Nil

Employability Skills Information

Employability Skills

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

- | ELEMENT | PERFORMANCE CRITERIA |
|---|---|
| 1. Prepare for meteorological operation | <ul style="list-style-type: none">1.1 <i>Equipment</i> is selected and checked for serviceability in accordance with <i>standard procedures</i>1.2 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures with particular attention to the hazards associated with explosive gases1.3 Equipment is prepared as directed by supervisor |
| 2. Gather meteorological data | <ul style="list-style-type: none">2.1 Weather balloon or other device is filled and launched in order to collect <i>atmospheric information</i>2.2 <i>Surface data</i> is collected using meteorological equipment2.3 Receiving equipment is operated in accordance with standard procedures2.4 All data is recorded in accordance with standard procedures |
| 3. Monitor and report meteorological information | <ul style="list-style-type: none">3.1 Meteorological information is communicated as directed by supervisor3.2 Incoming data is monitored to identify changing conditions and any changes are reported to supervisor3.3 Meteorological equipment is maintained and/or refurbished in accordance with standard procedures3.4 Documentation and records are completed and maintained in accordance with standard procedures |

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- use communication systems

Required Knowledge

- basic principles of meteorology
- capabilities of the equipment
- characteristics, tabulated data and limitations of the computerised meteorological station

Evidence Guide

EVIDENCE GUIDE

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

Assessment must confirm the ability to operate meteorological data recording equipment to provide accurate data on weather conditions.

Consistency in performance

Competency should be demonstrated over a range of actual meteorological scenarios that could be expected in the workplace

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in an operational or simulated operational environment.

Specific resources for assessment

Access to meteorological and ancillary equipment.

Range Statement

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.

Equipment may include

Anemometer
 Atmospheric sampling equipment
 Barometer
 Compass
 Computerised meteorological station
 Gas delivery system
 Gas regulation system
 Gas storage system
 Humidity measuring device
 Meteorological data recording equipment
 Safety equipment
 Thermometer
 Weather balloon filling devices
 Weather balloon inflation and launching device
 Weather balloons

Standard procedures may include

Australian Standards
 Defence Instructions
 Doctrinal pamphlets
 Job guides, other publications
 Manufacturers' handbooks, industry specifications and technical instructions
 OH&S regulations
 Organisational policies and procedures
 Procedure manuals
 Relevant local government by-laws
 Relevant state/territory or federal legislation
 Routine Orders
 Standing Operating Procedures

RANGE STATEMENT

	Standing Orders
	Written and verbal orders
Atmospheric information may include	Barometric pressure
	Cloud base
	Humidity
	Meteorological datum plane location
	Refractive index
	Wet and dry temperature
	Wind direction
	Wind speed
Surface data may include	Humidity
	Pressure
	Temperature
	Wind direction
	Wind speed

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil