



Australian Government

DEFCA203B Produce meteorological data

Release: 2

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Modification History

Release	TP Version	Comments
2	DEF12 V2	Application added. Evidence Guide updated.
1	DEF12 V1	First release.

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.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication. In a Defence context, this means that there is no civilian need to hold this unit in order to meet licensing, legislative, regulatory or certification requirements.

Application of the Unit

This competency was developed for combat arms personnel required to produce meteorological data in terms of likely weather conditions in areas, which are to be used to conduct Defence operations in a deployed operational environment but is applicable to any individual in this field of work.

Typically, operators as part of a team under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their outputs.

All activities are carried out in accordance with relevant 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 Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1. Prepare for meteorological operation

- 1.1 ***Equipment*** is selected and checked for serviceability in accordance with ***standard procedures***.
- 1.2 Work health and safety (WHS) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures with particular attention to the hazards associated with explosive gases.
- 1.3 Equipment is prepared as directed by supervisor.

2. Gather meteorological data

- 2.1 Weather balloon or other device is filled and launched in order to collect ***atmospheric information***.
- 2.2 ***Surface data*** is collected using meteorological equipment.
- 2.3 Receiving equipment is operated in accordance with standard procedures.
- 2.4 All data is recorded in accordance with standard procedures.

3. Monitor and report meteorological information

- 3.1 Meteorological information is communicated as directed by supervisor.
- 3.2 Incoming data is monitored to identify changing conditions and any changes are reported to supervisor.
- 3.3 Meteorological equipment is maintained and/or refurbished in accordance with standard procedures.
- 3.4 Documentation and records are completed and maintained in accordance with standard procedures.

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

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 time and across a range of simulated or actual workplace situations.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated workplace environment.

Specific resources for assessment

Access to meteorological and ancillary equipment.

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
- WHS regulations
- organisational policies and procedures
- procedure manuals
- relevant local government by-laws
- relevant state/territory or federal legislation
- routine orders
- standing operating procedures
- 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

Surface data may include:

- wind speed
- humidity
- pressure
- temperature
- wind direction
- wind speed

Unit Sector(s)

Not applicable.