



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCA203B Produce meteorological data

Revision Number: 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

1. **Prepare for meteorological operation**

- 1.1 **Equipment** is selected and checked for serviceability in accordance with **standard procedures**
- 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 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

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.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

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**Atmospheric information
may include**

Standing Orders
Written and verbal orders
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