



**Australian Government**

# **DEFCA310B Collect environmental information**

**Release: 2**

## DEFCA310B Collect environmental information

### Modification History

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

### Unit Descriptor

This unit covers the competency required to collect meteorological, hydrographic, geospatial and geological information for an area.

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 engineer personnel required to collect meteorological, hydrographic, geospatial and geological information for an area in a deployed operational environment but is applicable to any individual in this field of work.

Typically, operators work as part of a team under direct 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
<p><b>1. Plan and prepare for collection task</b></p>	<p>1.1 Requirement to collect <b><i>information</i></b> is identified from instructions, and is understood and confirmed with supervisor.</p> <p>1.2 Appropriate <b><i>collection methods</i></b> are determined.</p> <p>1.3 <b><i>Plan</i></b> is developed and agreed with supervisor.</p> <p>1.4 <b><i>Sources</i></b> of information and data are determined in accordance with <b><i>standard procedures</i></b>.</p> <p>1.5 <b><i>Resources</i></b> allocated for the task are identified in accordance with standard procedures.</p>
<p><b>2. Collect information and data</b></p>	<p>2.1 Work health and safety (WHS) requirements and recognised safety precautions are applied throughout the operation in accordance with standard procedures.</p> <p>2.2 Information and data is identified, sourced and collected in accordance with the plan.</p>
<p><b>3. Record and report information</b></p>	<p>3.1 Information is recorded in the format required by organisational procedures.</p> <p>3.2 Information is <b><i>communicated to a higher authority</i></b> in accordance with the requirements of the task.</p> <p>3.3 Information is disseminated as directed by supervisor.</p> <p>3.4 Documentation and records are completed and maintained in accordance with standard procedures.</p>

## Required Skills and Knowledge

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

### Required Skills

- analyse information and data
- communicate information and data
- conduct research
- questioning techniques
- tactical reconnaissance
- take measurements - using a laser range finder, tape measure, ruler
- technical reconnaissance
- use communications equipment
- use global positioning systems
- use optical enhancement tools such as binoculars

### Required Knowledge

- basic research and analysis techniques
- collection methods
- communication requirements and equipment
- indigenous inhabitants and culture
- intelligence cycle - direction, collection, processing and dissemination
- legal responsibilities
- navigation
- operational environment
- relevant legislation and procedures in relation to environmental requirements
- relevant WHS regulations/requirements, equipment, material and personal safety requirements
- security - site, personnel, information
- terrain and terrain analysis
- urban and rural demographics
- weather effects

## Evidence Guide

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

Assessment must confirm the ability to collect information and data that is relevant and appropriate to the specific operation.

### **Consistency in performance**

Competency should be demonstrated over time in a range of actual or simulated information and data collection contexts/environments.

### **Context of and specific resources for assessment**

#### **Context of assessment**

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

#### **Specific resources for assessment**

Access to information and data required for military engineering intelligence requirements.

## 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.

- Information*** may include:
- Unprocessed information/data of every description, which may be used in the production of intelligence and may include:
    - manufactured features - roads, buildings, facilities
    - population demographics
    - slope of ground
    - soils, minerals, rock strata
    - threat
    - vegetation - type, species, height, density, canopy
- Collection methods*** may include:
- by foot, in vehicles, in boats in aircraft or a combination
  - by liaison with organisations
  - by observation or inquiry
  - by specifically tasked reconnaissance
  - tasked through operational processes
  - through the application of research processes
- Collection plan*** must include:
- collection method
  - reporting requirements
  - timelines
- Sources*** may include:
- databases
  - external agencies
  - information systems
  - internal agencies
  - internet/intranet
  - libraries
  - local inhabitants
  - team members
- Standard procedures*** may include:
- Australian Standards
  - job guides, pamphlets and other publications
  - manufacturers' handbooks, industry specifications and technical instructions
  - WHS regulations
  - organisational policies and procedures
  - relevant local government by-laws
  - relevant state/territory or federal legislation or

- Resources*** may include:
- regulations
  - written and verbal orders and job instructions
  - equipment and material
  - finances
  - manpower
  - mobility assets
  - time
- Communication with higher authority*** may include:
- computer
  - radio
  - satellite
  - spoken
  - telephone
  - written

## **Unit Sector(s)**

Not applicable.