



Australian Government

DEFGEO001 Support geospatial operations

Release: 1

DEFGEO001 Support geospatial operations

Modification History

Release 1. This is the first release of this unit of competence from the Defence DEF Training Package

Application

This unit describes the knowledge and skills required to support Defence geospatial operations. It covers such tasks as the provision of support for field surveying and other spatial projects.

In the context of this unit, an understanding of the Defence geospatial operations being conducted and the production of the geospatial products to support the operation is required.

This unit was developed in a Defence environment but may be relevant to others who work in the geospatial field.

Those undertaking this unit would work independently, or as part of a team, with minimal supervision, while performing complex tasks, including complex problem solving, in a limited range of contexts. They would use discretion and judgement and take responsibility for the quality of their outputs.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable

Competency Field

Geospatial

Unit Sector

Defence

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 Plan and prepare to support geospatial operations | 1.1 Tasking for geospatial work requirements are received and, where required, clarified in accordance with regulatory requirements and standard operating procedures (SOPs) |
| | 1.2 Operational geospatial environment is identified and equipment relevant to geospatial operations is selected in accordance with SOPs |
| | 1.3 All resources required to perform the geospatial functions are identified and accessed in accordance with SOPs |
| 2 Provide support for geospatial operations | 2.1 All required resources are prepared to ensure effective operation in accordance with manufacturer requirements and SOPs |
| | 2.2 All geospatial equipment is operated effectively in accordance with manufacturer specifications and SOPs to collect and record measurements and data |
| | 2.3 All required tasks are completed within applied time allocation in accordance with SOPs |
| 3 Finalise support tasks | 3.1 All geospatial equipment utilised during tasks are refurbished in accordance with manufacturer requirements and SOPs |
| | 3.2 All documentation and reports are completed and alerted to the relevant supervisory personnel in accordance with SOPs |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide

Unit Mapping Information

No equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Assessment Requirements for DEFGEO001 Support geospatial operations

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Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion:

- applying relevant Work Health and Safety (WHS)/Occupational Health and Safety (OHS)/Occupational Safety and Health (OSH) and Australian Defence Force (ADF) regulatory requirements, organisational policy and procedures
- communicating clearly with others to clarify work tasks and equipment selection
- following manufacturer specifications and standard operating procedures to correctly:
 - set up and operate
- pack up and store equipment identifying, reviewing and analysing information that may impact on the tasks
- providing support for field surveying and other spatial projects
- selecting and using the geospatial tools and equipment relevant to completing support tasks
- undertaking data measuring and recording using relevant equipment and tools
- using information technology and software appropriate to geospatial operations
- using approved procedures to accurately collect and record measurements and data
- using communication devices effectively
- using safety equipment and supplies, including personal protective equipment (PPE)
- completing reports and documentation for geospatial operations

Knowledge Evidence

Evidence required to demonstrate competence, must satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- personal protective equipment (PPE) appropriate for geospatial operations
- effective communication techniques for verbal and written reports on geospatial operations
- legislative obligations of Work Health and Safety (WHS)/Occupational Health and Safety (OHS)/Occupational Safety and Health (OSH) requirements relevant to geospatial operations
- organisational policy relevant to geospatial operations
- operational geospatial environments
- resources and equipment used to support geospatial operations

- range of geospatial operations used in a Defence environment
- standard operating procedures (SOPs) for geospatial equipment requirements

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry

Links

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