



**Australian Government**

# **DEFSEN004 Operate an electronic support suite**

**Release: 1**

## DEFSEN004 Operate an electronic support suite

### Modification History

| Release | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <p>This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages.</p> <p>This unit supersedes and is equivalent to DEFSO004C Operate an electronic support suite.</p> <ul style="list-style-type: none"><li>• Unit code updated</li><li>• Content and formatting updated to comply with new standards</li><li>• All PC transitioned from passive to active voice</li><li>• PC 2.2 and 2.3 merged and PC 3.2 and 3.3 merged</li></ul> |

### Application

This unit describes the skills required to operate an electronic support suite. It includes the requirement to configure the suite, build and maintain the continuous collection, and collate, analyse and log information to track and identify new intercepts and to monitor own force emissions. This activity could continue for a prolonged period, requiring the operator to hand over effectively to another operator.

This unit was developed for Sensor Operators working within Defence but is applicable to any individual in this field of work.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would work as part of a team, under supervision, while performing routine tasks, in a broad range of contexts and environments. They use discretion and judgement and take responsibility for the quality of their output.

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

### Competency Field

Sensor Operations

## Elements and Performance Criteria

| ELEMENTS                                             | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes             | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.                                                                                                                                                                                                                                                                        |
| <b>1. Configure electronic support suite</b>         | 1.1 Confirm serviceability of electronic support suite and recognise and report any faults to supervisor.<br>1.2 Receive and confirm instructions from supervisor.<br>1.3 Optimise electronic support suite for operator use.<br>1.4 Optimise system according to an assessment of the outside environmental conditions.<br>1.5 Establish internal and external communications.                                                                                                |
| <b>2. Compile and maintain an electronic picture</b> | 2.1 Collect electromagnetic information using passive electronic support and other sources.<br>2.2 Collate, analyse and log to track electromagnetic information to identify and classify electronic support suite intercepts and to monitor own force emissions.<br>2.3 Access database/library for analysis/identification.<br>2.4 Report, display and disseminate intercept details for stakeholders.<br>2.5 Report problems or issues beyond own capability to supervisor. |
| <b>3. Finalise operations</b>                        | 3.1 Transfer electronic support suite operation to new operator as required or liaise with supervisor if operation needs to be ceased.<br>3.2 Secure and stow system and documentation.<br>3.3 Report to supervisor on completion.                                                                                                                                                                                                                                             |

## Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

|                       |   |   |   |   |         |   |   |   |   |                 |   |   |   |   |                    |   |   |   |   |          |   |   |   |   |
|-----------------------|---|---|---|---|---------|---|---|---|---|-----------------|---|---|---|---|--------------------|---|---|---|---|----------|---|---|---|---|
| 1                     | 2 | 3 | 4 | 5 | 1       | 2 | 3 | 4 | 5 | 1               | 2 | 3 | 4 | 5 | 1                  | 2 | 3 | 4 | 5 | 1        | 2 | 3 | 4 | 5 |
| Learning              |   |   |   |   | Reading |   |   |   |   | Writing         |   |   |   |   | Oral communication |   |   |   |   | Numeracy |   |   |   |   |
| Performance variables |   |   |   |   |         |   |   |   |   |                 |   |   |   |   |                    |   |   |   |   |          |   |   |   |   |
| 1                     | 2 | 3 | 4 | 5 | 1       | 2 | 3 | 4 | 5 | 1               | 2 | 3 | 4 | 5 | 1                  | 2 | 3 | 4 | 5 | 1        | 2 | 3 | 4 | 5 |
| Support               |   |   |   |   | Context |   |   |   |   | Text complexity |   |   |   |   | Task complexity    |   |   |   |   |          |   |   |   |   |

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

## Unit Mapping Information

This unit supersedes and is equivalent to DEF50004C Operate an electronic support suite.

## Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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# Assessment Requirements for DEFSEN004 Operate an electronic support suite

## Modification History

| Release | Comments                                                                                                                                                                                                                                                                                          |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <p>These Assessment Requirements were released in DEF Defence Training Package release 1.0 and meet the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>• Assessment Requirements created drawing upon specified assessment information from superseded unit</li></ul> |

## 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 organisational doctrine and procedures
- optimising electronic support suite equipment
- using databases/libraries
- completing a minimum of twelve hours of accumulated electronic support suite operations
- classifying and logging intercepts as required and in accordance with electronic support tasking, using databases and libraries for analysis/identification

## Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- cryptographic materials
- daily system operability tests (DSOTs)
- electronic logging requirements
- internal and external communications
- pulse analysis theory
- radar principles
- tactical data systems

## Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

Companion Volume implementation guides are found in VETNet -

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