



Australian Government

DEFSEN006 Optimise and monitor sensor display

Release: 1

DEFSEN006 Optimise and monitor sensor display

Modification History

Release	Comments
1	This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to DEFSO006A Optimise and monitor sensor display. • Unit code updated • Content and formatting updated to comply with new standards • All PC transitioned from passive to active voice • PC 1.1 removed

Application

This unit describes the skills required to optimise and monitor sensor displays. This includes setting up and applying settings to sensor display. It also includes monitoring the sensor display for irregularities and taking steps to return the sensor display to optimal performance.

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.
1. Set up sensor display	1.1 Set up tactical display in accordance with required function and shift supervisor tasking. 1.2 Access and display tactical information. 1.3 Set up sensor display and build tactical picture using operational data from other sources.
2. Apply settings to sensor display	2.1 Select and set appropriate range scale. 2.2 Select and display sensor video to support the compilation of the tactical picture. 2.3 Prepare IFF system equipment to support the compilation of the tactical picture. 2.4 Perform sensor index error checks.
3. Monitor sensor performance and respond to sensor degradation	3.1 Monitor sensors for degradation and recommend rectification action to shift supervisor. 3.2 Liaise with other sensor operators to achieve optimum sensor performance. 3.3 Recognise and respond to sensor alarms.

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
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 DEF50006A Optimise and monitor sensor display.

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 DEFSEN006 Optimise and monitor sensor display

Modification History

Release	Comments
1	These Assessment Requirements were released in DEF Defence Training Package release 1.0 and meet the Standards for Training Packages. Assessment Requirements created drawing upon specified assessment information from superseded unit

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.

- identifying and responding to degradation in sensor display
- communicating with operations room personnel
- receiving and interpreting instructions
- operating sensor display settings based on tasking and required function
- applying settings to sensor display in accordance with the requirements of the intended function
- optimising and monitoring a sensor display

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.

- IFF system operation and settings
- operational data relevant to required function
- procedure for sensor index error checks
- requirements of a tactical display over the range of functions
- roles and responsibilities of other sensor operators
- selection criteria for sensor range scale
- sensor alarms and meaning
- tactical information relevant to required function
- theory of radar

- theory of sonar
- types of sensor degradation and effect on sensor

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

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