



Australian Government

DEFSIM009 Operate the simulator for testing purposes

Release: 1

DEFSIM009 Operate the simulator for testing purposes

Modification History

Release	Comments
1	This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages.

Application

This unit describes the skills required to operate the simulator for testing purposes following maintenance. The unit includes identifying the testing requirement, conducting the test and analysing the results, and the documentation and certification processes. In the context of this unit, simulators are used to replicate land, air, sea and undersea systems to facilitate training and development.

Testing includes particular component tests or complete simulator operational tests. The simulator components include the complete simulator or, power distribution and control systems, computers and peripheral hardware, image generator and visual display systems, motion and control loading systems, sound systems and weapons systems.

The outcomes of the test include immediate fault finding and repair or scheduling the simulator for routine maintenance.

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

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 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.

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

Competency Field

Simulator 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. Identify testing requirement	1.1 Identify and confirm the type of simulator testing to be undertaken. 1.2 Identify the components to be tested. 1.3 Consult simulator documentation. 1.4 Identify test parameters to be met. 1.5 Prepare simulator for testing.
2. Undertake simulator tests	2.1 Carry out pre-start, start-up and shut-down procedures. 2.2 Conduct specified tests. 2.3 Act on and report monitoring systems warnings and alarms. 2.4 Collect and analyse test data. 2.5 Identify performance abnormalities. 2.6 Determine remedial action if necessary.
3. Complete the test sequence	3.1 Complete certification and other documentation for future application. 3.2 Report abnormalities as required.

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

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>

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Assessment Requirements for DEFSIM009 Operate the simulator for testing purposes

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.

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.

- undertaking research and analysis related to simulator operating procedures
- following logical, complex analysis techniques
- using appropriate information technology and software
- identifying, reviewing and analysing information that may impact on the simulator operational testing including mathematical outcomes
- identifying simulator test abnormalities
- determining simulator testing remedial action
- negotiating and communicating effectively with key stakeholders

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.

- operational capabilities and limitations of the relevant simulator
- simulator operating modules comprising the simulator system being worked on
- simulator operating procedures
- specified simulator tests
- complex analysis techniques
- legislative and regulatory requirements related to the simulator being evaluated
- organisational policy and procedures related to the relevant simulator
- product knowledge related to systems and/or equipment in service

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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