DEFSIM016 Fault find and repair simulator computer systems and peripheral hardware

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Modification History

Release 1. This is the first release of this unit of competency in the DEF Defence Training Package Release 4.0.

Application

This unit describes the knowledge and skills required to conduct fault finding and repairs to simulator computer systems and peripheral hardware. This includes analysing fault reports, identifying and rectifying faults, conducting functional tests 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.

Computer systems may include Generic Simulator Computer Systems (x86 and x64), host computers, input/output systems, visual computers and instructor operating systems of simulators.

Peripheral hardware may include instruments, visual display unit equipment, printers, hard drives and data storage devices, switches and routers.

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.

Pre-requisite Unit

Not applicable.

Competency Field

Simulator Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Receive and analyse fault report	**1.1** Receive and analyse simulator computer systems peripheral hardware fault report
	1.2 Identify and select appropriate fault finding method(s) that will apply across the range of simulator computer systems and peripheral hardware
	1.3 Prepare the simulator computer system and peripheral hardware for fault finding
2 Identify and find fault	**2.1** Apply fault finding method(s)
	2.2 Identify and analyse fault indicators
	2.3 Identify the simulator computer systems and peripheral hardware fault
	2.4 Confirm that the fault is the one initially reported
3 Repair fault	**3.1** Identify and confirm cause of fault
	3.2 Identify and confirm repair method(s)
	3.3 Complete simulator computer systems and peripheral hardware repair
	3.4 Conduct post repair safety check
	3.5 Restart simulator computer system and peripheral hardware
4 Conduct functional test	**4.1** Test simulator computer system and peripheral hardware to ensure operational integrity
	4.2 Confirm operational parameters
5 Finalise repair process	**5.1** Finalise simulator computer system and peripheral hardware repair reports including a detailed synopsis of the fault and the repair process and any certification requirements
	5.2 Report the operational status of the simulator computer system and peripheral hardware

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

This unit replaces and is equivalent to DEFSIM002 Fault find and repair simulator computer systems and peripheral hardware

Links

Companion Volume Implementation Guides are found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9