



Australian Government

DEFSIM012 Fault find and repair simulator motion systems

Release: 1

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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 the simulator motion systems. 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. Simulator motion systems are mechanical/electric and/or mechanical/hydraulic.

This unit applies to those working in fault finding and repairing simulator motion systems and was developed for technicians 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 tasks, including 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.

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|---|---|
| 1 Receive and analyse fault report | 1.1 Receive and analyse simulator motion system fault report |
| | 1.2 Identify and select appropriate fault finding method(s) that will apply across the range of simulator motion systems |
| | 1.3 Prepare the simulator motion system 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 motion system 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 |
| | 3.3 Complete simulator motion system repair |
| | 3.4 Conduct post repair safety check |
| | 3.5 Restart simulator motion system |
| 4 Conduct functional test | 4.1 Test simulator motion system to ensure operational integrity |
| | 4.2 Confirm operational parameters |
| 5 Finalise repair process | 5.1 Finalise simulator motion system 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 motion system |

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 DEF Defence Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found on VETNet -

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