



Australian Government

MEAARM0005 Inspect, test and troubleshoot aircraft stores suspension systems and components

Release: 1

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA605 Inspect, test and troubleshoot aircraft stores suspension systems and components.

Application

This unit describes the skills and knowledge required by members of the Australian Defence Force (ADF) who are required to apply explosive ordnance safety and handling procedures, hand skills and maintenance documentation and publications to inspect, test and troubleshoot stores suspension systems (SSS) and components during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit applies to all aircraft fitted with stores suspension systems.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

MEAARM0003 Remove and install aircraft stores suspension system components

Competency Field

Aviation maintenance

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. Prepare to inspect, test and troubleshoot aircraft SSS and components	1.1 Verify required task from documentation 1.2 Visually and physically check aircraft safety devices in accordance with technical publications and manuals 1.3 Visually identify correct SSS component for inspection, testing and troubleshooting from documentation 1.4 Select appropriate tools and ground support equipment in accordance

Elements	Performance Criteria
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	with task
2. Inspect SSS component	2.1 Visually and physically check and remove fitted firing devices in accordance with maintenance manual 2.2 Inspect SSS component in accordance with technical publications and manuals while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 2.3 Prepare aircraft for testing and troubleshooting of SSS component in accordance with technical publications and manuals
3. Test and troubleshoot SSS component	3.1 Perform functional testing of SSS component for evidence of serviceability or malfunction in accordance with technical publications and manuals 3.2 Identify SSS component faults in accordance with technical publications and manuals 3.3 Obtain required specialist advice to assist with the troubleshooting process 3.4 Take corrective action (repair or replace) in accordance with technical publications and manuals while observing all relevant WHS requirements, including the use of MSDSs and items of PPE
4. Complete and process documentation	4.1 Complete required documentation for SSS component inspection, testing and troubleshooting in accordance with standard enterprise procedures 4.2 Forward completed documentation to Maintenance Control Section (MCS) in accordance with standard enterprise procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret maintenance manuals.
- Numeracy skills to interpret and communicate technical information and take and interpret system measurements.
- Writing skills to complete documentation.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA605 Inspect, test and troubleshoot aircraft stores suspension systems and components (Release 1).

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>

Assessment Requirements for MEAARM0005 Inspect, test and troubleshoot aircraft stores suspension systems and components

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Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- inspect, test and troubleshoot aircraft stores suspension systems (SSS) on multiple different tasks involving the following SSS components:
 - bomb release unit
 - pylon
 - missile launcher
- perform functional testing by applying system and component knowledge and logical fault-finding procedures and applicable maintenance data to troubleshoot SSS and component faults and assess post-maintenance serviceability
- follow safety precautions relating to explosive ordnance handling and manual handling of SSS components while performing the above maintenance
- apply safety requirements and appropriate legislative and regulatory requirements while performing the above maintenance
- undertake the following for each component being worked on:
 - verify the reconfiguration task to be completed by identifying each of:
 - maintenance restrictions
 - aircraft tail number
 - aircraft entered as unserviceable
 - nil stores fitted
 - check at least one of the following safety device types:
 - earth lead
 - aircraft safety pins
 - aircraft switches
 - check at least one of the following firing device types:
 - stores release cartridges
 - chaff and flares
 - gun system
 - missiles
 - loaded stores

- prepare aircraft for testing and troubleshooting by:
 - opening panels
 - connecting ground support equipment and test equipment
- obtain specialist advice from at least one of the following:
 - subject matter expert
 - manufacturer
 - systems program office
- commence task prior to initiating documentation.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the aircraft operating and maintenance environment
- aircraft SSS and component operation and interfaces with other aircraft systems
- hardware and component attachment methods
- work health and safety (WHS) procedures and policies
- explosive ordnance safety and handling procedures
- technical publications and manuals relevant to inspecting, testing and troubleshooting aircraft SSS and components, including:
 - aircraft publications
 - maintenance instruction manuals and process specifications
 - servicing or service bulletins or structural repair manuals
 - illustrated parts catalogues, aircraft wiring manuals or drawings
 - tooling, equipment or manufacturer's manuals
 - standard practices
 - enterprise aviation regulations and publications
- technical documentation procedures, including:
 - EE500 maintenance form
 - Computer-Aided Maintenance Management (Camm2) system documents
 - SSS documentation.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulator Defence Aviation Safety Authority (DASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated in the workplace under routine supervision or in a simulated environment that reflects workplace conditions and contingencies encountered in inspecting, testing and troubleshooting aircraft SSS components.

The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:

- workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to inspecting, testing and troubleshooting aircraft SSS and components
- materials, tools and equipment specified in the maintenance manuals and applicable procedures
- general and special-purpose tools and ground support.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement. In addition, assessment methods may include questioning and observations in operational or simulated environments.

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

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