



Australian Government

**MEA604 Inspect, test and troubleshoot
aircraft stores management systems and
components**

Release: 1

MEA604 Inspect, test and troubleshoot aircraft stores management systems and components

Modification History

Release 1 - New unit of competency

Application

This unit of competency applies to members of the Australian Defence Force (ADF) who are required to apply explosive ordnance safety and handling procedures, hand skills and the use of maintenance documentation/publications in the inspection, testing and troubleshooting of stores management systems (SMS) and components.

The unit applies to all aircraft with stores management systems.

The unit is part of the Armament Certificate IV training pathway.

This unit is used in workplaces that operate under the airworthiness regulatory systems of the ADF.

Pre-requisite Unit

MEA602 Remove and install aircraft stores management system components

Competency Field

Aviation maintenance

Unit Sector

Elements and 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 SMS and components | 1.1 | The task is verified from applicable documentation |
| | 1.2 | Aircraft safety devices are checked in accordance with relevant technical publications and manuals |
| | 1.3 | Correct SMS component is visually identified for inspection, testing and troubleshooting |

- | | | |
|----|-------------------------------------|---|
| | 1.4 | Appropriate tools and ground support equipment are selected in accordance with the task |
| 2. | Inspect SMS component | |
| | 2.1 | Firing devices are checked and removed if fitted |
| | 2.2 | SMS component is inspected 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 (MSDS) and items of personal protective equipment (PPE) |
| | 2.3 | Aircraft is prepared for testing and troubleshooting of SMS component in accordance with technical publications and manuals |
| 3. | Test and troubleshoot SMS component | |
| | 3.1 | SMS component is functionally tested in accordance with applicable technical publications and manuals for evidence of serviceability or malfunction |
| | 3.2 | SMS component faults are identified in accordance with technical publications and manuals |
| | 3.3 | Specialist advice is obtained when required to assist with the troubleshooting process |
| | 3.4 | Corrective action is taken in accordance with technical publications and manuals while observing all relevant WHS requirements, including the use of MSDS and items of PPE |
| 4. | Complete and process documentation | |
| | 4.1 | Applicable documentation is completed for SMS component inspection, testing and troubleshooting |
| | 4.2 | Completed documentation is forwarded to Maintenance Control Section (MCS) |

Foundation Skills

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

- Task verification includes:**
- Maintenance restrictions
 - Aircraft tail number
 - Aircraft entered as unserviceable
 - Nil stores fitted
- Documentation includes:**
- EE500
 - CAMM2 documents
 - SMS documentation
- Safety devices include:**
- Earth lead
 - Aircraft safety pins
 - Aircraft switches
- Technical publications and manuals include:**
- 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
- SMS components include:**
- Mission computer
 - Armament computer
 - Encoder/decoder
 - Control unit
 - Head-up display (HUD)
 - Multifunction display (MFD)
- Firing devices include:**
- Stores release cartridges
 - Chaff and flares
 - Gun system
 - Missiles
 - Loaded stores
- Checking includes:**
- Visually
 - Physically
- Aircraft preparation includes:**
- Panels opened
 - Ground support equipment and test equipment connected
- Specialist advice is obtained**
- Subject matter experts

- from:**
- Manufacturers
 - Systems program office
- Corrective action includes:**
- Repair
 - Component replacement
- Applicable documentation includes:**
- Aircraft documentation
 - SMS component documentation
- Procedures and requirements include:**
- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 1 – equivalent to MEA604A Inspect, test and troubleshoot aircraft stores management systems and components

(The unit was developed from ADF Enterprise unit DDRARM401A Inspect, test and troubleshoot aircraft stores management systems and components and is equivalent to it).

Links

Companion Volume implementation guides are found in VETNet -

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