



**Australian Government**

# **MEA605 Inspect, test and troubleshoot aircraft stores suspension systems and components**

**Release: 1**

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## **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 suspension systems (SSS) and components during the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

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

This unit of competency 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**

MEA603            Remove and install aircraft stores suspension 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 SSS 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 SSS component is visually identified for inspection, testing and troubleshooting           |

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|----------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | 1.4 | Appropriate tools and ground support equipment are selected in accordance with the task                                                                                                                                                                           |
| 2. Inspect SSS component               | 2.1 | Firing devices are checked and removed if fitted                                                                                                                                                                                                                  |
|                                        | 2.2 | SSS 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 SSS component in accordance with technical publications and manuals                                                                                                                                       |
| 3. Test and troubleshoot SSS component | 3.1 | SSS component is functionally tested in accordance with applicable technical publications and manuals for evidence of serviceability or malfunction                                                                                                               |
|                                        | 3.2 | SSS 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 SSS 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.

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|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Task verification includes:</b>                 | <ul style="list-style-type: none"><li>• Maintenance restrictions</li><li>• Aircraft tail number</li><li>• Aircraft entered as unserviceable</li><li>• Nil stores fitted</li></ul>                                                                                                                                                                                                                                                             |
| <b>Documentation includes:</b>                     | <ul style="list-style-type: none"><li>• EE500</li><li>• CAMM2 documents</li><li>• SMS documentation</li></ul>                                                                                                                                                                                                                                                                                                                                 |
| <b>Safety devices include:</b>                     | <ul style="list-style-type: none"><li>• Earth lead</li><li>• Aircraft safety pins</li><li>• Aircraft switches</li></ul>                                                                                                                                                                                                                                                                                                                       |
| <b>Technical publications and manuals include:</b> | <ul style="list-style-type: none"><li>• Aircraft publications</li><li>• Maintenance instruction manuals and process specifications</li><li>• Servicing or service bulletins or structural repair manuals</li><li>• Illustrated parts catalogues, aircraft wiring manuals or drawings</li><li>• Tooling, equipment or manufacturer's manuals</li><li>• Standard practices</li><li>• Enterprise aviation regulations and publications</li></ul> |
| <b>SSS components include:</b>                     | <ul style="list-style-type: none"><li>• Bomb release unit</li><li>• Pylon</li><li>• Missile launcher</li></ul>                                                                                                                                                                                                                                                                                                                                |
| <b>Firing devices include:</b>                     | <ul style="list-style-type: none"><li>• Stores release cartridges</li><li>• Chaff and flares</li><li>• Gun system</li><li>• Missiles</li><li>• Loaded stores</li></ul>                                                                                                                                                                                                                                                                        |
| <b>Checking includes:</b>                          | <ul style="list-style-type: none"><li>• Visually</li><li>• Physically</li></ul>                                                                                                                                                                                                                                                                                                                                                               |
| <b>Aircraft preparation includes:</b>              | <ul style="list-style-type: none"><li>• Panels opened</li><li>• Ground support equipment and test equipment connected</li></ul>                                                                                                                                                                                                                                                                                                               |
| <b>Specialist advice is obtained from:</b>         | <ul style="list-style-type: none"><li>• Subject matter experts</li><li>• Manufacturer</li><li>• Systems program office</li></ul>                                                                                                                                                                                                                                                                                                              |
| <b>Corrective action includes:</b>                 | <ul style="list-style-type: none"><li>• Repair</li><li>• Component replacement</li></ul>                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applicable documentation</b>                    | <ul style="list-style-type: none"><li>• Aircraft documentation</li></ul>                                                                                                                                                                                                                                                                                                                                                                      |

- includes:**
- Stores suspension system component documentation
- Procedures and requirements include:**
- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

## Unit Mapping Information

Release 1 – equivalent to MEA605A Inspect, test and troubleshoot aircraft stores suspension systems and components

(The unit was developed from ADF Enterprise unit DDDRARM402A Inspect, test and troubleshoot aircraft stores suspension 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>