



Australian Government

MEA603 Remove and install aircraft stores suspension system components

Release: 2

MEA603 Remove and install aircraft stores suspension system components

Modification History

Release 2. Equivalent to MEA603 Remove and install aircraft stores suspension system components with amended prerequisite codes.

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 use maintenance documentation/publications in the removal and installation of stores suspension system (SSS) components to meet system reconfiguration requirements 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

DEFEXO001	Work safely with explosive ordnance
MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA154	Apply work health and safety practices in aviation maintenance
MEA155	Plan and organise aviation maintenance work activities
MEA156	Apply quality standards during aviation maintenance activities
MEA157	Complete aviation maintenance industry documentation
MEA158	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

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 aircraft for SSS reconfiguration	1.1	SSS reconfiguration 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 reconfiguration
		1.4	Appropriate tools and ground support equipment are selected in accordance with the task
2.	Remove SSS component	2.1	Firing devices are checked and removed if fitted
		2.2	SSS component is removed from aircraft 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	Protective covers and panels are fitted to aircraft and SSS component in accordance with technical publications and manuals
3.	Install SSS component	3.1	Applicable protective covers and panels are removed from aircraft and SSS component in accordance with technical publications and manuals
		3.2	SSS component is fitted to aircraft 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 reconfigured SSS
		4.2	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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| Reconfiguration includes: | <ul style="list-style-type: none">• Removal of currently fitted SSS components• Installation of specified SSS components |
| Verification includes: | <ul style="list-style-type: none">• Maintenance restrictions• Aircraft tail number• Aircraft entered as unserviceable• Nil stores fitted |
| Documentation includes: | <ul style="list-style-type: none">• EE500• CAMM2 documents• SSS documentation |
| Safety devices include: | <ul style="list-style-type: none">• Earth lead• Aircraft safety pins• Aircraft switches |
| Technical publications and manuals include: | <ul style="list-style-type: none">• 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 |
| SSS components include: | <ul style="list-style-type: none">• Bomb release unit• Pylon• Missile launcher |
| Firing devices include: | <ul style="list-style-type: none">• Stores release cartridges• Chaff and flares• Gun system• Missiles• Loaded stores |
| Checking includes: | <ul style="list-style-type: none">• Visually• physically |

Applicable documentation includes:

- Aircraft documentation
- SSS component documentation

Procedures and requirements include:

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA603 Remove and install aircraft stores suspension system components

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 MEA603 Remove and install aircraft stores suspension system components

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Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- applying safety procedures relating to aircraft SSS
- applying hand skills and applicable maintenance manuals in the removal and installation of SSS components
- using ground support equipment and test equipment
- determining SSS reconfiguration requirements
- explosive ordnance handling and safety
- manual handling of SSS components.

The underlying skills inherent in this unit should be transferable across a range of aircraft SSS reconfiguration activities. It is essential that assessment confirms the ability to comply with organisational safety requirements and appropriate legislative and regulatory requirements while maintaining SSS systems. The ability to work safely within an explosive ordnance environment, conduct applicable tests and maintain relevant documentation is critical, including checking specifically for:

- failure to check aircraft safety devices are installed
- failure to ensure firing devices checked and removed if fitted
- commencing task prior to initiating documentation
- failure to comply with relevant WHS procedures and policies.
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Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- the aircraft operating and maintenance environment
- aircraft SSS and interfaces with the stores management system and other aircraft systems
- WHS procedures and policies
- explosive ordnance safety and handling procedures
- technical publications and manuals
- hardware and component attachment methods
- system and component test procedures

- technical documentation procedures.

Assessment Conditions

- Competency should be assessed on aircraft and/or simulator using materials, tools and equipment specified in the maintenance manuals and applicable procedures. It is also expected that general and special-purpose tools and ground support equipment would be used where appropriate.
- The unit may be assessed independently or in conjunction with unit MEA602 Remove and install aircraft stores management system components.
- Evidence of transferability of skills and knowledge related to SSS system component removal and installation is essential. This is to be established through demonstration of the ability to:
 - render the system safe
 - perform relevant inspections and tests
 - replace components
 - perform appropriate maintenance tasks.
- The work plan should take account of applicable safety and quality requirements in accordance with the industry and regulatory standards.
- The following conditions of assessment represent the requirements of the ADF and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under routine supervision on a range of system reconfiguration tasks involving the following SSS components:
 - bomb release unit
 - pylon
 - missile launcher.
- This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).
- In addition to evidence provided in the Log of Industrial Experience assessment methods may include questioning and observation in operational or simulated environments.
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).

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