



Australian Government

MEA508 Maintain, install and remove restraint systems

Release: 2

MEA508 Maintain, install and remove restraint systems

Modification History

Release 2. Equivalent to MEA508 Maintain, install and remove restraint systems with amended prerequisite codes.

Application

This unit of competency requires application of skills and knowledge relating to the maintenance, installation and removal of personal restraint systems. Maintenance may be performed in-situ or in a maintenance workshop and involves inspection, fault diagnosis, replacement of parts, completion of repairs and cleaning during the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

The unit applies to a range of personal restraint systems.

The unit is part of the Aeroskills Life Support and Furnishing Certificate III and IV training pathways. It is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

Pre-requisite Unit

MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA118	Conduct self in the aviation maintenance environment
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
MEA511	Operate and maintain sewing and overlocking machines
MSFSF2002	Machine sew materials

Competency Field

Aircraft life support

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---------------------------------------|--|
| 1. Maintain restraint belts/harnesses | 1.1 Restraint belts/harnesses are inspected for serviceability in accordance with standard procedures |
| | 1.2 Identified faults beyond own authority to rectify are reported to supervisor and faulty restraint system is quarantined |
| | 1.3 Unserviceable parts of a quick release fitting are inspected, tested and replaced |
| | 1.4 Unserviceable parts of the restraint belts/harnesses are replaced to render restraint system serviceable in accordance with standard procedures 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) |
| | 1.5 Basic restraint belt/harness stitching repairs are completed in accordance with standard procedures |
| | 1.6 Restraint belts/harnesses are cleaned in accordance with standard procedures |
| | 1.7 Restraint belts/harnesses are presented for inspection by supervisor in accordance with standard procedures |
| | 1.8 Maintenance documentation is completed and processed in accordance with standard enterprise procedures |
| 2. Remove restraint systems | 2.1 Approval to remove restraint system is obtained in accordance with standard enterprise procedures |
| | 2.2 Restraint system is removed from the aircraft in accordance with applicable maintenance publication |

	2.3	Maintenance documentation is completed and processed in accordance with standard enterprise procedures
3. Install restraint systems	3.1	Approval to fit restraint system is obtained in accordance with standard enterprise procedures
	3.2	Restraint system is fitted to the aircraft in accordance with applicable maintenance publication
	3.3	Maintenance documentation is completed and processed in accordance with standard enterprise procedures

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.

Restraint belts/harnesses include:

- Fixed point attached harness
- Passenger restraint belts
- Retractable restraint harnesses (will be attached to inertia reel but the inertia reel does not form part of the restraint system)

Standard procedures are found in any or all of:

- Commonwealth/state/territory WHS legislation, regulations and codes
- Australian Standards
- Equipment manufacturers' specifications and procedures
- Industry practices
- Safety manuals
- Maintenance schedules
- Work instructions
- Maintenance organisation manuals
- MSDS
- Defence regulations and instructions
- Civil Aviation Safety Regulations (CASRs) and

Faults include:

- advisory material
- Standing instructions
- Broken quick release fitting springs
- Broken stitching
- Contamination
- Corrosion of metal parts
- Damaged hardware
- Damaged quick release fitting screws
- Excessive wear
- Expired date of restraint components
- Incorrect manufacture
- Pulled threads
- Seized quick release fitting lugs
- Ultraviolet (UV) degradation

Parts include:

- Belt
- Fixed point attachment line
- Hardware (e.g. buckles)
- Harness
- Parachute housing (e.g. pack)
- Quick release fittings including lugs, springs and screws

Unit Mapping Information

Release 2. Equivalent to MEA508 Maintain, install and remove restraint systems

Links

Companion Volume implementation guides are found in VETNet -

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