



Australian Government

MEA501 Maintain and fit anti-G suits

Release: 2

MEA501 Maintain and fit anti-G suits

Modification History

Release 2. Equivalent to MEA501 Maintain and fit anti-G suits with amended prerequisite codes.

Application

This unit of competency requires application of skills and knowledge relating to the maintenance and fitment of anti-G suits worn by aircrew and passengers in high performance aircraft. Maintenance involves inspection, testing, fault diagnosis, replacement of parts, repairs to fabric and cleaning. Fitment involves adjusting the anti-G suit to correctly fit an individual. Maintenance may be performed individually or as part of a team.

The scope of repairs excludes inflatable components of the anti-G suit.

This unit is part of the Aeroskills Life Support and Furnishing Certificate III and IV training pathways.

The unit 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 machines and overlockers
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 anti-G suit | 1.1 Anti-G suit is inspected for serviceability in accordance with standard procedures |
| | 1.2 Anti-G suit is tested for serviceability in accordance with standard procedures and manufacturer's specifications |
| | 1.3 Identified faults beyond own authority to rectify are reported to supervisor and faulty anti-G suit is quarantined |
| | 1.4 Unserviceable parts of the anti-G suit are replaced and fabric repairs are completed in accordance with standards 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 Anti-G suit is cleaned in accordance with standard procedures |
| | 1.6 Anti-G suit is presented for inspection by supervisor in accordance with standard procedures |
| | 1.7 Maintenance documentation is completed and processed in accordance with standard enterprise procedures |
| 2. Fit anti-G suit | 2.1 Fitting process is explained to the participant so that optimal fit can be achieved |
| | 2.2 Participant is measured and appropriate size anti-G suit is selected |
| | 2.3 Anti-G suit is adjusted to optimise fit in conjunction with participant feedback |

- 2.4 Anti-G suit fit is verified by the supervisor
- 2.5 Relevant 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.

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
- Standing instructions

Typical faults include:

- Broken zips and stitching
- Contamination
- Corrosion of metal parts, such as zippers
- Damaged hardware
- Excessive wear
- Incorrect manufacture
- Leaks
- Tears

Anti-G suit replaceable parts include:

- Eyelets
- Press studs
- Zips

Adjustment of fit is effected

- Lacing of torso and legs

by:

- Waist extension/reduction

Unit Mapping Information

Release 2. Equivalent to MEA501 Maintain and fit anti-G suits

Links

Companion Volume implementation guides are found in VETNet -

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