



Australian Government

Assessment Requirements for MEA501 Maintain and fit anti-G suits

Release: 2

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Modification History

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

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 WHS practices relating to Anti-G suit maintenance processes, including the selection and correct use of PPE, where applicable
- using MSDS
- using applicable tools and maintenance documentation to:
 - test/inspect anti-G suits for serviceability
 - replace unserviceable components and repair fabric in accordance with approved procedures including sewing
 - select and use appropriate anti-G suit cleaning materials
 - correctly fit anti-G suits to users
- tying of knots, including:
 - reef knot
 - bowline
 - thumb knot
 - daisy chain
 - half hitch
- cleaning and maintenance of equipment and tools.

The underlying skills inherent in this unit should be transferable across a range of aircraft life support equipment maintenance activities. It is essential that anti-G suit testing and inspection procedures, cleanliness requirements and safety precautions, including the correct use of PPE, are fully observed, understood and complied with. Ability to interpret maintenance and fitting procedures and apply them in practice is critical.

This is to be demonstrated through demonstration of the ability to recognise faults and damage and perform appropriate repairs that are within the bounds of the individual's authority, and through the demonstration of correct fitting procedures on different sized individuals.

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:

- relevant enterprise procedures and maintenance publications
- WHS procedures relating to Anti-G suit maintenance, including the selection and use of PPE
- how to obtain MSDS
- G forces and anti-G suit operation during flight
- physiological effects of flight
- critical nature of maintaining and fitting anti-G suits
- forces of ejection
- operation of testing and measuring equipment and tools used to maintain anti-G suits
- inflation methods used in the maintenance of anti-G suits
- types of corrosion and contamination that may affect anti-G suits
- modification requirements for anti-G suits
- anti-G suit repair procedures and limitations
- lacing techniques used in the fitting of anti-G suits
- anti-G suit cleaning methods and materials
- handling, storage and transit procedures.

Assessment Conditions

- Competency should be assessed in the workplace or simulated workplace 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 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 Regulators (ADF and CASA) and maintenance stakeholders 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 representative range of maintenance tasks and on the correct fitting of anti-G suits to at least three (3) different sized individuals.
- 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).
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).

Links

Companion Volume implementation guides are found in VETNet -

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