



Australian Government

Assessment Requirements for MEALSU0001 Maintain and fit anti-G suits

Release: 1

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA501 Maintain and fit anti-G suits.

Performance Evidence

There must be evidence the candidate has complete all the tasks outlined in elements and performance criteria of this unit, and demonstrated the ability to:

- under routine supervision, maintain three anti-G suits, covering the following tasks and using applicable tools and maintenance documentation:
 - inspect and test anti-G suits for serviceability
 - replace unserviceable components (any of eyelets, press studs, zips) 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 at least three differently sized individuals, using lacing of torso and legs and waist extension or reduction to achieve fit
- tie each of the following knots to adjust suit-fitting:
 - reef knot
 - bowline
 - thumb knot
 - daisy chain
 - half hitch
- apply procedures, cleanliness requirements and safety precautions at all times and as relevant to the maintenance and fitting tasks being performed above.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant enterprise procedures and maintenance publications, including:
 - equipment manufacturers' specifications and procedures
 - industry practices
 - safety manuals
 - maintenance schedules
 - work instructions
 - maintenance organisation manuals

- standing instructions
- Commonwealth, state and territory work health and safety (WHS) legislation, regulations, codes and procedures for anti-G suit maintenance
- Australian Standards for oxygen masks
- Defence Aviation Safety Authority (DASA) regulations and instructions
- WHS procedures for Anti-G suit maintenance, including the selection and use of personal protective equipment (PPE)
- how to obtain material safety data sheets (MSDSs)
- 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
- typical faults that may affect anti-G suits, including:
 - broken zips and stitching
 - corrosion of metal parts (e.g. zippers)
 - contamination
 - damaged hardware
 - excessive wear
 - incorrect manufacture
 - leaks and tears
- 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.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (DASA and CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in maintaining and fitting anti-G suits. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
- workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to maintaining and fitting anti-G suits
- materials tools and equipment specified in the maintenance manuals and procedures
- general- and special-purpose tools and items of ground support.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

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