



Australian Government

Assessment Requirements for MEALSU0002 Maintain and fit helmets

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 MEA502 Maintain and fit helmets with amended prerequisite codes.

Performance Evidence

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

- maintain at least three unserviceable helmets, covering a representative range of maintenance tasks, and correctly fit helmets to at least three individuals by adjusting at least one item from each group:
 - communications system (e.g. ear cup and microphone where fitted)
 - comfort system (e.g. pads)
 - retention system (e.g. strap)
 - sizing system (e.g. liner)
 - visor system
- use applicable tools and maintenance documentation for the tasks above to:
 - solder helmet electronic or electrical components
 - test the operation of helmet electronic or electrical components, including earphones, microphones, electric cables and switches
 - replace unserviceable components (any of comfort pads, ear cups and ear cup pads, liners, retention straps and visors) in accordance with approved procedures including hand sewing, the use of hazardous chemicals for ear cups and liners, and adhesives and thermal oven operation
 - select and use appropriate helmet cleaning materials
- tie each of the following knots to adjust helmet-fitting:
 - reef knot
 - bowline
 - thumb knot
 - 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 helmet maintenance and selecting and using personal protective equipment (PPE)
- Australian Standards for oxygen masks
- Defence Aviation Safety Authority (DASA) regulations and instructions
- how to obtain material safety data sheets (MSDSs)
- components of a helmet and their function
- helmet operation in relation to flight
- physiological effects of flight
- aircraft crash dynamics
- critical nature of maintaining and fitting helmets
- need to regularly assess correct fitment of helmets
- helmet fitting procedures
- G forces
- forces of ejection
- basic electrical principles
- environmental conditions that may affect helmets
- approved cleaning methods for aviation life support equipment
- handling, storage and transit procedures relating to life support equipment
- typical faults that may affect helmets, including:
 - contamination
 - corrosion
 - cracks
 - delamination
 - fraying
 - incorrect manufacture
 - intermittent communication
- modification requirements for helmets
- helmet repair procedures and limitations
- soldering techniques

- operation of testing and measuring equipment and relevant specialist tools including thermal oven operation
- use and storage of adhesives.
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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 helmets. 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 helmets
 - 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>