



Australian Government

MEA502 Maintain and fit helmets

Release: 2

MEA502 Maintain and fit helmets

Modification History

Release 2. Equivalent to MEA502 Maintain and fit helmets with amended prerequisite codes.

Application

This unit of competency requires application of skills and knowledge relating to the maintenance and fitment of helmets worn by aircrew and passengers. Maintenance involves inspection, testing, fault diagnosis, replacement of parts, cleaning and functional testing. Fitment involves adjusting the helmet to correctly fit an individual. Maintenance may be performed individually or as part of a team.

Maintaining and fitting ancillary helmet equipment, such as illumination systems, night vision equipment and oxygen masks, is not part of this unit.

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
MEA295	Use electrical test equipment to perform basic electrical tests on aircraft and components

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 helmet | 1.1 Helmet is inspected for serviceability in accordance with standard procedures |
| | 1.2 Helmet 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 helmet is quarantined |
| | 1.4 Unserviceable parts of the helmet are replaced 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 Communication system components are tested in accordance with standard procedures |
| | 1.6 Helmet is cleaned in accordance with standard procedures |
| | 1.7 Helmet is 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. Fit helmet | 2.1 Fitting process is explained to the participant so that optimal fit can be achieved through relevant feedback |
| | 2.2 Participant is measured to select an appropriate size helmet |
| | 2.3 Components of helmet are adjusted to optimise fit |
| | 2.4 Helmet fit is verified through participant feedback and 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 manual
- Maintenance schedules
- Work instructions
- Maintenance organisation manual
- MSDS
- Defence regulations and instructions
- Standing instructions

Faults include:

- Contamination
- Corrosion
- Cracks
- Delamination
- Fraying
- Incorrect manufacture
- Intermittent communication
- Scores/scratches

Replaceable parts of the helmet include:

- Comfort pads
- Ear cup
- Ear cup pads
- Liner
- Retention straps
- Visor

Communication system components include:

- Earphones
- Microphone
- Electric cables
- Switches

Components adjusted for fitment include:

- 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

Unit Mapping Information

Release 2. Equivalent to MEA502 Maintain and fit helmets

Links

Companion Volume implementation guides are found in VETNet -

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