



Australian Government

Assessment Requirements for MEALSU0004 Maintain and fit oxygen masks

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 MEA504 Maintain and fit oxygen masks.

Performance Evidence

There must be evidence that 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 oxygen masks, covering a representative range of maintenance tasks, and correctly fit oxygen masks to at least three individuals by adjusting the retention system (e.g. strap) and seals
- use applicable tools, testing and measuring equipment and maintenance documentation for the tasks above
- solder at least three oxygen mask electronic and electrical components
- safely use the oxygen test rig during testing operations
- correctly dispose of hazardous waste during parts replacement activities
- 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 oxygen mask maintenance
- Australian Standards for oxygen masks
- relevant Defence Aviation Safety Authority (DASA) regulations and instructions
- how to obtain and apply material safety data sheets (MSDSs)

- safety precautions relating to oxygen and the operation of the oxygen test rig
- requirements for an oxygen mask servicing facility
- oxygen in flight
- components of an oxygen mask and their function, including:
 - communication system (e.g. microphone)
 - delivery tube
 - exo-skeleton (e.g. outer shell)
 - face piece (e.g. trimming)
 - retention system (e.g. strap)
 - valves
- oxygen mask operation in relation to flight
- oxygen regulator operation
- physiological effects of flight
- hypoxia
- critical nature of maintaining and fitting oxygen masks
- need to regularly assess correct fitment of oxygen masks
- oxygen mask fitting procedures
- procedures for fitting oxygen masks to helmets
- G forces
- forces of ejection
- basic electrical principles
- environmental conditions that may affect oxygen equipment
- approved cleaning methods for aviation life support equipment
- handling, storage and transit procedures relating to life support equipment
- handling and storage procedures for oxygen masks
- typical faults that may affect oxygen masks, including:
 - contamination
 - corrosion
 - cracks
 - excessive wearing
 - fraying
 - incorrect manufacture
 - intermittent communication
 - leaks
 - perishing
- modification requirements for oxygen masks
- oxygen mask repair procedures and limitations
- soldering techniques for mask components
- operation of testing and measuring equipment and tools used to maintain oxygen masks
- use and storage of adhesives.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators DASA and Civil Aviation Safety Authority (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 oxygen masks. 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 oxygen masks
 - materials, tools and equipment specified in the maintenance manuals and applicable procedures
 - general and special-purpose tools and items of ground support equipment required for maintaining and fitting oxygen masks.

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>