



Australian Government

Assessment Requirements for MEA504 Maintain and fit oxygen masks

Release: 2

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Modification History

Release 2. Equivalent to MEA504 Maintain and fit oxygen masks 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 oxygen mask maintenance processes
- using MSDS
- using applicable tools, testing/measuring equipment and maintenance documentation to:
 - solder oxygen mask electronic/electrical components
 - test the operation of helmet electronic/electrical components
 - replace unserviceable components in accordance with approved procedures
 - select and use appropriate oxygen mask cleaning materials
 - correctly fit oxygen masks to users
- safely using the oxygen test rig
- cleaning and maintenance of equipment and tools
- correctly disposing of hazardous waste.

The underlying skills inherent in this unit should be transferable across a range of aircraft life support equipment maintenance activities. It is essential that oxygen mask testing and inspection procedures, cleanliness requirements and safety precautions 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.

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 oxygen mask maintenance
- how to obtain MSDS
- 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
- 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
- fitting procedures relating to the fitment of 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
- types of corrosion and contamination that may affect oxygen masks
- modification requirements for oxygen masks
- oxygen mask repair procedures and limitations
- soldering techniques
- operation of testing and measuring equipment and tools used to maintain oxygen masks
- use and storage of adhesives.

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.
- 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 at least three (3) unserviceable oxygen masks providing a representative range of maintenance tasks and on the correct fitting of oxygen masks to at least three (3) individuals.
- This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide.
- 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>