



Australian Government

Department of Education, Employment and Workplace Relations

DEFLS004B Maintain and fit oxygen masks

Release: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to maintain and fit oxygen masks.

This unit of competency has been written for masks fitted to aviation aircrew and would normally include communication devices. However, there may be other applications. Integral to the fitting of the mask is the integration of the mask and the helmet to the person.

Maintaining an oxygen mask includes inspecting, testing, isolating faults, replacing, cleaning and testing prior to placing the item back into service.

Fitting an oxygen mask includes adjusting the mask to fit the individual because the item is not an off-the-shelf issue.

Application of the Unit

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The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s Nil

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1. Maintain oxygen mask

- 1.1 Oxygen mask is inspected for serviceability in accordance with **standard procedures**
- 1.2 Oxygen mask is tested for serviceability in accordance with standard procedures and manufacturers' specifications
- 1.3 Identified **faults** beyond own authority to rectify are reported to supervisor and faulty oxygen mask quarantined
- 1.4 Unserviceable **parts of the oxygen mask** are replaced to render oxygen mask serviceable
- 1.5 **Communication system components** are tested in accordance with standard procedures
- 1.6 Oxygen mask is cleaned in accordance with standard procedures
- 1.7 Oxygen mask is presented for inspection by supervisor and work is not progressed until supervisor has completed inspections in accordance with standard procedures
- 1.8 Relevant documentation is completed in accordance with standard procedures

2. Fit oxygen mask

- 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 appropriate size oxygen mask
- 2.3 **Components** of oxygen mask are adjusted to optimise fit
- 2.4 Integration of the oxygen mask and helmet is confirmed for correct function during operations
- 2.5 Oxygen mask fit is verified through participant feedback and supervisor approval
- 2.6 Relevant documentation is completed in accordance with standard procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- ability to relate to people from a range of social, cultural and ethnic backgrounds, and physical and mental abilities
- deliver briefings to personnel in relation to operating, donning/doffing and fitting of oxygen masks
- handle, store and organise transport of equipment
- information technology skills to enable access and input to documentation
- liaise with outside agencies relating to maintenance activities
- literacy skills for comprehending and interpreting documentation which may include:
 - aircraft documentation
 - maintenance documentation
 - survival and distress pyrotechnic documentation
 - maintenance and servicing schedules
 - flying schedules
 - technical publications
 - technical drawings
 - Material Safety Data Sheets (MSDS)
- operate and maintain personal protective equipment
- problem solving skills for a limited range of differing procedural circumstances
- raise and complete maintenance documentation
- solder oxygen mask electronic/electrical components
- test oxygen mask electronic/electrical components
- use oxygen test rig safely
- use relevant hand and power tools
- use testing and measuring equipment in accordance with approved methods
- work safely with oxygen
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity

Required Knowledge

- approved cleaning methods for aviation life support equipment
- components of an oxygen mask and their function
- critical nature of maintaining and fitting oxygen masks
- different aviation trades and how they relate to each other
- electrical principles
- environmental conditions that may affect oxygen equipment

REQUIRED SKILLS AND KNOWLEDGE

- fitting procedures relating to the fitment of oxygen masks to helmets
- forces of ejection
- 'G' forces
- handling, storage and transit procedures relating to life support equipment
- handling and storage procedures of oxygen masks
- hypoxia
- legal responsibilities
- modification requirements for oxygen masks
- need to regularly assess correct fitment of oxygen masks to personnel
- operation of testing and measuring equipment, and tools used to maintain oxygen masks
- oxygen in flight
- oxygen mask operation in relation to flight
- oxygen regulator operation
- physiological effects of flight
- procedures in relation to organisation and aviation industry
- quality systems and standards
- reading and interpreting specifications
- relevant legislation and procedures in relation to aviation industry
- relevant OH&S regulations/requirements, precautions, equipment, material and personal safety requirements
- repair limitations for oxygen masks
- requirements for an oxygen mask servicing facility
- soldering techniques
- tool control procedures
- types of corrosion and contamination that may affect oxygen masks
- use of aviation industry documentation
- use of maintenance documentation

Evidence Guide

EVIDENCE GUIDE

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Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to correctly fit oxygen masks to a minimum of three different people with no corrective action required by supervisor; to recognise a range of faults including incorrect manufacture; to correct a minimum of three unserviceable oxygen masks; and to work safely with oxygen.

Consistency in performance

Competency should be demonstrated over time with a range of fitments and maintenance to oxygen masks.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated workplace environment.

Specific resources for assessment

Access to oxygen masks, three live participants, stools and equipment for fitting and maintaining oxygen masks.

Range Statement

RANGE STATEMENT

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

Standard procedures may include

Australian Standards
Equipment manufacturers' specifications and procedures
Industry practices
Maintenance schedules
Occupational Health and Safety (OH&S) requirements
Organisational instructions/journals
Regulatory requirements

Faults may include

Contamination
Corrosion
Cracks
Excessive wearing
Fraying
Incorrect manufacture
Intermittent communication
Leaks
Perishing

Parts of the oxygen mask may include

Communication system (e.g. Microphone)
Delivery tube
Exo-skeleton (e.g. outer shell)
Face piece (e.g. may include trimming)
Retention system (e.g. strap)
Valves

Communication system components may include

Electric cables
Microphone
Switches

Components may include

Retention System (e.g. strap)
Seals

RANGE STATEMENT

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Unit Sector(s)

Not applicable.

Corequisite Unit/s**Co-requisite Unit/s** Nil