



Australian Government

MEALSU0013 Maintain and pack escape slides

Release: 1

MEALSU0013 Maintain and pack escape slides

Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Assessment Requirements clarified. Supersedes and is equivalent to MEA514 Maintain and pack escape slides.

Application

This unit describes the skills and knowledge required to maintain and pack escape slides. Maintenance involves inspection, testing, fault diagnosis, parts replacement and cleaning during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit applies to a number of types of inflatable aircraft escape slides. It does not include repairing escape slides.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

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

Competency Field

Aircraft life support

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Maintain escape slide	1.1 Inspect escape slide for serviceability in accordance with standard

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	procedures 1.2 Report identified faults beyond own authority to rectify to supervisor, and quarantine faulty escape slide 1.3 Replace unserviceable parts of the escape slide in accordance with standard procedures while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDSs) and items of personal protective equipment (PPE) 1.4 Test escape slide for serviceability in accordance with standard procedures and manufacturer's specifications 1.5 Clean escape slide in accordance with standard procedures 1.6 Present escape slide for inspection by supervisor in accordance with standard procedures 1.7 Complete and process maintenance documentation in accordance with standard enterprise procedures 1.8 Clean and perform required maintenance on equipment and tools used in accordance with standard enterprise procedures
2. Pack escape slide	2.1 Pack escape slide for use in accordance with standard procedures 2.2 Present escape slide for inspection by supervisor in accordance with standard enterprise procedures 2.3 Complete and process packing documentation in accordance with standard enterprise procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret maintenance manuals and procedures.
- Numeracy skills to interpret technical information.
- Writing skills to complete documentation.

Other 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.

Applicable types of escape slides include:

- 19D22454-2
- 19D22387-2
- 19D22454-5
- 19D22454-6

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA514 Maintain and pack escape slides.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>

Assessment Requirements for MEALSU0013 Maintain and pack escape slides

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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 and pack at least three escape slides of any type during scheduled or unscheduled maintenance, including the following tasks:
 - complete a minimum of three inflation tests without the need for corrective action by the supervisor
 - test cylinder weight and determine if it is within tolerance
 - pack a minimum of three escape slides without the need for corrective action by the supervisor
 - recognise the following potential faults and their serviceability limits:
 - incorrect manufacture
 - elapsed expiry date of escape slide.
- handle, store and organise transport of equipment
- inflate and deflate escape slides for maintenance
- use applicable testing and measuring equipment, tools and maintenance documentation
- tie knots during packing of escape slides, including:
 - reef knot
 - bowline
 - thumb knot
 - half hitch
- perform hand sewing during replace of unserviceable parts
- apply procedures, cleanliness requirements and safety precautions at all times and as relevant to the escape slides being maintained.
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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 survival inflatable device maintenance and packing
- Australian Standards for restraint systems
- relevant Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) regulations and instructions
- relevant safety precautions including storage and handling of compressed gas cylinders
- critical nature of maintaining and packing survival inflation devices, i.e. risk of death
- search and rescue procedures
- approved cleaning methods for aviation life support equipment
- environmental conditions that may affect survival inflation devices, including ultraviolet (UV) degradation
- typical faults that may affect survival inflation devices, including:
 - abrasion
 - broken stitching
 - contamination
 - corrosion of metal parts
 - damaged hardware
 - delamination/porosity
 - expired components or equipment
 - faulty valves
 - frayed lines
 - holes
 - incorrect manufacture
 - lifting tapes
- handling, storage and transit procedures relating to survival inflation devices
- survival inflation devices and methods of operation
- principles of operation of inflation mechanisms
- components of an escape slide and their function, including:
 - cylinders
 - operating head
 - valves
 - valise
- repair limitations for escape slides
- modification requirements for escape slides
- requirements for a survival inflation device servicing facility
- packing tools and measuring equipment required to pack survival inflatable devices

- use of escape slides.
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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 packing escape slides. 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 packing escape slides
 - materials, tools and equipment specified in the maintenance manuals and applicable procedures
 - general and special-purpose tools and items of ground support equipment.

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

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