



Australian Government

MEAARM0001 Maintain aircraft egress systems

Release: 1

MEAARM0001 Maintain aircraft egress systems

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 MEA601 Maintain aircraft egress systems.

Application

This unit describes the skills and knowledge required to maintain aircraft egress systems that contain explosive ordnance. Maintenance covers the entire egress system, including the explosive ordnance. It involves the installation and removal of safety devices, disarming and rearming, inspecting, testing, replacing parts, cleaning and painting during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

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

DEFEXO001 Work safely with explosive ordnance

MEA107 Interpret and use aviation maintenance industry manuals and specifications

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

Aviation maintenance

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. Fit and remove safety	1.1 Fit safety devices to aircraft egress systems in accordance with

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devices	standard operating and maintenance procedures 1.2 Remove safety devices from aircraft egress systems and correctly stow in accordance with standard operating and maintenance procedures
2. Prepare for aircraft egress system maintenance	2.1 Identify and obtain applicable maintenance documentation required for maintenance 2.2 Identify aircraft egress system maintenance requirements from documentation 2.3 Obtain and position special tools and equipment required for the maintenance tasks
3. Inspect, test and maintain aircraft egress systems	3.1 Inspect aircraft egress systems in accordance with applicable maintenance documentation 3.2 Safely conduct required tests and record results in accordance with standard enterprise procedures 3.3 Perform required maintenance tasks in accordance with maintenance documentation and standard enterprise 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) 3.4 Perform required emergency and contingency procedures
4. Remove and install aircraft egress system components	4.1 Remove and install non-explosive egress system components in accordance with maintenance documentation and standard enterprise procedures while observing all relevant WHS requirements, including the use of MSDSs and items of PPE 4.2 Remove and install explosive egress system components in accordance with maintenance documentation and standard enterprise procedures while observing all relevant WHS requirements, including the use of MSDSs and items of PPE
5. Complete aircraft egress system maintenance operation	5.1 Tag and pack removed non-explosive components for transportation in accordance with standard enterprise procedures 5.2 Tag and pack removed explosive components in accordance with procedures for packaging and transportation of explosive ordnance/dangerous goods 5.3 Maintain special tools and equipment in accordance with standard enterprise procedures 5.4 Complete required documentation and records in accordance with

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	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.
- Numeracy skills to interpret technical information.
- Writing skills to complete maintenance documentation.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA601 Maintain aircraft egress systems (Release 2).

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MEAARM0001 Maintain aircraft egress systems

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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 aircraft egress systems during scheduled and unscheduled maintenance on two or more tasks from each of these categories:
 - maintenance tasks
 - arming and de-arming
 - cleaning
 - component changes
 - painting
- maintain at least two of the following non-explosive components:
 - barometric and gravitational sensing components
 - canopy jettison components
 - catapults
 - ejection seat railings and guns
 - inertia reels
 - parachute assemblies
 - pressure source bottles
 - survival equipment
- maintain at least two of the following explosive components:
 - ejection handles
 - ejection seat cartridges and initiators
 - explosive connectors
 - explosive delay elements
 - flexible linear shaped charges
 - rocket motors
 - shielded mild detonating cord
 - special function cartridges
- disarm and rearm egress system during emergency and contingency procedures
- safely handle explosive components

- conducting tests involving continuity, gauging and measuring
- identifying and selecting applicable items of specialist equipment and tools.

Knowledge Evidence

- There must be evidence the candidate has knowledge of:
- relevant standard enterprise procedures and maintenance publications, including defect reports
- maintenance releases containing details of unserviceabilities
- modification orders or leaflets
- service bulletins
- instructions issued by airworthiness authorities
- work instructions
- servicing schedules
- maintenance manuals
- standards and drawings
- applicable airworthiness and explosive ordnance regulations
- standing instructions
- quality manuals
- safety manuals
- maintenance and explosives records
- commonwealth, state and territory work health and safety (WHS) legislation, regulations, codes and procedures for parachute maintenance, including selecting and using personal protective equipment (PPE)
- Australian Standards for oxygen masks
- Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) regulations and instructions
- egress system construction, layout and operation
- operation, characteristics and limitations of aircraft egress systems
- effect of environmental conditions
- colour coding, marking and labels associated with egress systems
- operation, characteristics and limitations of specialist tools and equipment
- egress system test procedures
- safety precautions associated with explosive components
- requirements for handling and disposal of explosive components
- general WHS procedures for egress system maintenance, including applicable PPE
- how to obtain and apply material safety data sheets (MSDSs).
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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 aircraft egress systems. 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 aircraft egress systems
 - materials, tools and equipment specified in the maintenance manuals and applicable procedures
 - facilities and resources used in the storage, distribution or maintenance of explosive ordnance, including a licensed explosive site
 - general and special-purpose tools and items of ground support equipment required for maintaining aircraft egress systems.

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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