Australian Government

MEA601 Maintain aircraft egress systems

Release: 2

MEA601 Maintain aircraft egress systems

Modification History

Release 2. Equivalent to MEA601 Maintain aircraft egress systems with amended prerequisite codes.

Application

This unit of competency covers the maintenance of 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 the performance of scheduled or unscheduled maintenance. Maintenance may be performed individually or as part of a team.

The unit is part of the Aeroskills Aircraft Armament Certificate IV training pathway.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence

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

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1.	Fit and remove safety devices	1.1	Safety devices are fitted to aircraft egress systems in accordance with standard operating and maintenance procedures
		1.2	Safety devices are removed from aircraft egress systems and are correctly stowed in accordance with standard operating and maintenance procedures
2.	Prepare for aircraft egress system maintenance	2.1	Applicable maintenance documentation is identified and obtained
		2.2	Aircraft egress system maintenance requirements are identified from applicable documentation
		2.3	Special tools and equipment required for the maintenance tasks are obtained and positioned
3.	Inspect, test and maintain aircraft egress systems	3.1	Aircraft egress systems are inspected in accordance with applicable maintenance documentation
		3.2	Relevant tests are safely conducted and results are recorded in accordance with standard enterprise procedures
		3.3	Required maintenance tasks are performed in accordance with applicable maintenance documentation and standard enterprise procedures while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE)
		3.4	Emergency and contingency procedures are performed as required
4.	Remove and install aircraft egress system components	4.1	Non-explosive egress system components are removed and installed in accordance with applicable maintenance documentation and standard enterprise procedures while observing all relevant WHS requirements, including the use of MSDS and items of

			PPE
		4.2	Explosive egress system components are removed and installed in accordance with applicable maintenance documentation and standard enterprise procedures while observing all relevant WHS requirements, including the use of MSDS and items of PPE
5.	Complete aircraft egress system maintenance operation	5.1	Removed non-explosive components are tagged and packaged for transportation in accordance with standard enterprise procedures
		5.2	Removed explosive components are tagged and packaged in accordance with procedures for packaging and transportation of explosive ordnance/dangerous goods
		5.3	Special tools and equipment are maintained in accordance with standard enterprise procedures
		5.4	Documentation and records are completed in accordance with standard enterprise procedures

Foundation Skills

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 maintenance documentation includes:

- 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
Required maintenance tasks include:	• Arming and de-arming • Cleaning • Component changes • Painting

Egress system components include:	• 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
	• 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

Procedures and requirements include:	• Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA601 Maintain aircraft egress systems

Links

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