Australian Government

DEFEO717C Maintain aircraft egress systems

Release 2

INDUSTRY SKILLS COUNCILS
Creating Australia's Future

DEFEO717C Maintain aircraft egress systems

Modification History

Release	TP version	Comments
2	DEF12 V2	Layout adjusted.
1	DEF12 V1	First release.

Unit Descriptor

This unit covers the competency required to maintain aircraft egress systems which contain explosive ordnance.

Application of the Unit

This competency normally applies to the individual who is required to maintain entire aircraft egress systems including components that contain explosive ordnance.
It includes the attachment of safety devices to the egress systems while they are being maintained and the testing of the various explosive and non explosive components in the egress system.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

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 Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. **Prepare for the maintenance of aircraft egress systems**	1.1 Requirement for ***aircraft egress systems*** maintenance is identified from work requests/instructions and is confirmed 1.2 Work health and safety (WHS) requirements, including those contained in organisational procedures, are applied throughout the operation 1.3 ***Technical references***, tools and equipment required for the maintenance are identified, acquired and prepared in accordance with organisational procedures 1.4 Safety devices appropriate to the aircraft egress systems are installed prior to and on completion of, any maintenance in accordance with organisational procedures
2. **Maintain egress systems**	2.1 Aircraft egress systems are inspected in accordance with organisational policy and procedures 2.2 ***Relevant maintenance*** is conducted in accordance with organisational procedures, technical specifications and drawings 2.3 Emergency and contingency procedures are applied in accordance with organisational policy 2.4 Relevant ***tests*** are conducted and recorded in accordance with organisational procedures, technical specifications and drawings
3. **Finalise the maintenance operation**	3.1 Aircraft egress system components are processed in accordance with the requirements specified in the work request 3.2 Equipment/tools are maintained in accordance with organisational policy and procedures 3.3 Housekeeping procedures are conducted in accordance with workshop requirements 3.4 ***Documentation and records*** are maintained in accordance with statutory, ***organisation*** and workshop requirements

Required Skills and Knowledge

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

Required Skills

- apply environmental constraints
- apply operational safety
- apply relevant WHS requirements
- communicate orally and in writing
- conduct tests
- maintain documentation
- identify and select appropriate tools and equipment
- identify appropriate aircraft egress systems
- use tools and equipment

Required Knowledge

- colour coding, marking and labels
- documentation requirements
- effects of environmental conditions
- maintenance procedures
- operational safety
- operations, characteristics and limitations of aircraft egress systems to be maintained
- operations, characteristics and limitations of tools and equipment used in maintenance
- relevant WHS requirements
- testing procedures

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

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

Assessment must confirm the ability to comply with:

- organisational safety requirements
- appropriate legislative and regulatory requirements while maintaining aircraft egress systems

Assessment must also confirm the ability to:

- work safely within an explosive ordnance environment
- conduct relevant tests
- maintain documentation

Consistency in performance

Competency should be demonstrated in a range of actual or simulated explosive ordnance contexts.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated work environment, in accordance with all relevant legislation and organisational requirements.

Specific resources for assessment

Access is required to:

- facilities and resources used in the storage, distribution or maintenance of explosive ordnance, including a licensed explosive site.

Method of assessment

This unit may be assessed with the following unit:

- DEFEO101D Work safely with explosive ordnance.

In a public safety environment assessment is usually conducted via direct observation in a training environment or in the workplace via subject matter supervision and/or mentoring, which is typically recorded in a competency workbook.

Assessment is completed using appropriately qualified assessors who select the most appropriate method of assessment.

Assessment may occur in an operational environment or in an industry-approved simulated work environment. Forms of assessment that are typically used include:

- direct observation
- interviewing the candidate
- journals and workplace documentation
- third party reports from supervisors
- written or oral questions

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.	

Aircraft egress systems may include:	• Non-explosive components such as:
	  • barometric and gravitational sensing components
	  • canopy jettison components
	  • catapults
	  • ejection seat rails and guns
	  • inertia reels
	  • parachute assemblies
	  • pressure source bottles
	  • survival equipment
	• Explosive components such as:
	  • 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

Technical references may include:	• Orders and instructions • Technical drawings • Technical reference pamphlets • Other publications
Relevant maintenance may include:	• Arming and de-arming • Cleaning • Components change out • Painting
Tests may include:	• Continuity tests • Gauging • Measuring
Processing may include:	• Forwarding components for disposal, storage or testing and may include some additional preparation such as packaging
Documentation and records may include:	• Receipt and issue records • Timesheets • Work records

Organisation may include:	• Defence organisation • Enterprises that work with explosive ordnance • Other government departments or instrumentalities that work with explosive ordnance

Unit Sector(s)

Not applicable.