



Australian Government

DEFEO721A Remove explosive ordnance from damaged aircraft

Release 2

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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 remove *explosive ordnance* from damaged aircraft by members of the Australian Defence Force.

Application of the Unit

This competency normally applies to members of the Australian Defence Force required to remove explosive ordnance from damaged aircraft.

These removal operations can be conducted under a variety of conditions, including wartime, peacekeeping, in support of the civilian community/authority, as part of a joint services and/or coalition operation and also in training. The damaged aircraft can be friendly, enemy or of unknown origin.

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 removal operations	1.1 Equipment, tools and stores required for removal operations are collected, stored and checked for presence and serviceability in accordance with instructions and procedures 1.2 Personnel required to participate are briefed on their duties and advised of their responsibilities 1.3 Contact and liaison with other agencies is established and maintained in accordance with current procedures 1.4 Pre-scene arrival planning is conducted in accordance with instructions and procedures
2. Conduct render-safe procedures/disposal and removal of explosive ordnance	2.1 Explosive ordnance and associated components are located and identified in accordance with specified procedures 2.2 Equipment, tools and stores required to remove, dispose of/render explosive ordnance safe are identified and prepared for use in accordance with authorised procedures 2.3 Controlling authority is advised of safety and evacuation requirements 2.4 Method of conducting removal, disposal/render-safe procedure is determined and planned/prepared 2.5 Equipment is operated in accordance with current instructions 2.6 Render-safe/disposal procedure is conducted in accordance with current policies and procedures addressing all relevant work health and safety requirements 2.7 Explosive ordnance and immediate area are inspected and either declared safe or alternate disposal operation is planned as required by current policy and procedures
3. Finalise activities	3.1 Equipment is recovered, refurbished and secured in accordance with current policy and procedures 3.2 Post explosive ordnance removal clearance is conducted in accordance with current policy and procedures 3.3 Explosive ordnance removal reports are completed and processed in accordance with current policy and procedures 3.4 Technical evidence is provided to investigations,

ELEMENT

PERFORMANCE CRITERIA

inquiries and courts as required

Required Skills and Knowledge

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

Required Skills

- apply consequent mitigation principles
- apply operational safety
- apply removal, render-safe/disposal methods
- apply safety template requirements
- apply time management
- calculate and apply time and safety distance
- conduct liaison
- conduct site preparation and refurbishment
- identify aircraft types
- identify explosive ordnance types
- maintain documentation
- operate specialist explosive ordnance disposal vehicle
- read, access, interpret and apply technical instructions

Required Knowledge

- aircraft systems
- blast/fragmentation/thermal effects and mitigation
- characteristics, technical capabilities and explosive ordnance loads of damaged aircraft
- characteristics, technical capabilities, effects and limitations of explosive ordnance to be removed, disposed of/rendered safe
- documentation requirements
- equipment handling requirements
- initiation procedures
- net explosive quantity estimations
- operational safety
- relevant testing procedures
- removal procedures
- render-safe/disposal methods
- safety distance calculation procedures
- site preparation and refurbishment requirements
- theory of explosive ordnance design

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:

- relevant work health and safety requirements
- recognised safety precautions

Assessment must confirm the ability to:

- locate and identify explosive ordnance to be removed
- liaise with other agencies
- prepare and operate equipment, tools and stores
- safely remove, dispose of/render-safe explosive ordnance
- apply consequent mitigation principles
- gather and secure evidence
- maintain documentation

Consistency in performance

Competency should be demonstrated in a range of actual or simulated explosive ordnance removal 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 Defence requirements.

Specific resources for assessment

Access is required to:

- damaged aircraft
- specialised explosive ordnance disposal equipment\
- and explosive ordnance to be removed

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.

<i>Explosive ordnance</i> includes:	• All munitions containing explosives, nuclear fission or fusion materials and biological and chemical agents such as bombs and warheads; guided and ballistic missiles; artillery, mortar, rocket and small arms ammunition; all mines, torpedoes and depth charges; demolition charges; pyrotechnics; clusters and dispensers; cartridge and propellant actuated devices; electro explosive devices; clandestine and other improvised explosive devices; and all similar or related items or components explosive in nature
<i>Equipment, tools and stores</i> may include:	• Chemical detection/analysis equipment • Digging tools • Electrical firing equipment • Hook and line • Personal protective equipment • Specialist explosive ordnance disposal vehicle • Telescope • Weapons, which may include: • shaped charges • explosively formed projectiles • de-armor • X-ray including complete equipment schedules and processing equipment • And may include reference materials such as: • STANAGS • Defence service instructions • memorandums of understanding • standing operating procedures • range instructions
<i>Removal operations</i> may be conducted:	• Above or below the high water mark • By day and/or night • In all weather conditions • In any environment • In confined spaces
<i>Contact and liaison with other agencies</i> may cover:	• Authorisation • Chain of evidence • Control arrangements

	• Evacuation requirements • Media details and releases • Safety aspects
Identifying explosive ordnance may include:	• Application of the theory of explosive ordnance design • Approved publications • Engravings • Markings
Controlling authority may be:	• Civil authorities • Coalition Military • Defence • Joint Service Command • Parent Service
Removal, disposal/render-safe procedure may be:	• By remote or manual means • Effected by: • disruption • explosive • non-explosive • other approved render-safe procedure • And may include all natures of explosive ordnance and associated components
Relevant work health and safety requirements may:	• Be subordinate to the operational requirement in the performance of explosive ordnance disposal operations • Involve applying recognised safety precautions
Post explosive ordnance removal clearance may include:	• Collecting and securing forensic evidence

Unit Sector(s)

Not applicable.