



Australian Government

DEFEO701C Dispose of explosive ordnance

Release 2

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Modification History

Release	TP version	Comments
2	DEF12 V2	Unit descriptor corrected.
1	DEF12 V1	First release.

Unit Descriptor

This unit covers the competency required to prepare a destruction site and to dispose of explosive ordnance by burning, detonation or by functioning on a licensed demolition range under controlled conditions.

This unit specifically precludes the destruction of unexploded ordnance whether that has malfunctioned/failed to function or been otherwise compromised while being handled/mishandled for storage, maintenance or transportation.

The unit that covers the competency relating to destruction of unexploded ordnance is DEFEO702D Destroy unexploded ordnance.

Application of the Unit

This competency normally applies to the individual who is required to prepare a destruction site and to dispose of explosive ordnance by burning, detonation or by functioning on a licensed demolition range under controlled conditions.

The disposal of explosive ordnance may be undertaken for a variety of reasons such as out of shelf life, being defective or no longer required or been otherwise compromised while being handled/mishandled for storage, transportation or maintenance.

Explosive ordnance in this competency does not include that which has malfunctioned/failed to function following attempted firing or ignition or been otherwise compromised while being handled/mishandled for storage, transportation or maintenance, this being classed as unexploded ordnance and the subject of a different competency.

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

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| <p>1. Prepare for destruction</p> | <p>1.1 Requirement for disposal of <i>explosive ordnance</i> is identified from work requests/instructions and confirmed with relevant personnel.</p> <p>1.2 Work health and safety (WHS) requirements including those contained in <i>organisational</i> procedures, are applied throughout the operation.</p> <p>1.3 Item(s) of explosive ordnance to be disposed of and disposal method are confirmed in accordance with organisation policy and procedures.</p> <p>1.4 <i>Documentation and instructions</i> are prepared in accordance with statutory and organisation requirements.</p> <p>1.5 Liaison and notification of parties affected by the disposal is undertaken in accordance with organisation policy and procedures, and Range Standing Orders.</p> <p>1.6 Site/equipment <i>preparation</i> is completed in accordance with organisation policy and procedures, and Range Standing Orders.</p> <p>1.7 Net explosive quantities and compatibility are identified, calculated, analysed and applied throughout the operation.</p> |
| <p>2. Dispose of explosive ordnance</p> | <p>2.1 Explosive ordnance and <i>disposal means</i> are prepared and tested in accordance with Range Standing Orders and organisation policy.</p> <p>2.2 Explosive ordnance is disposed of using the most appropriate disposal means.</p> <p>2.3 Emergency and contingency procedures are applied in accordance with organisation policy and Range Standing Orders.</p> |

- 2.4 Residue is inspected to ensure all items have been disposed of in accordance with Range Standing Orders.
3. **Finalise the disposal process**
- 3.1 Site/equipment is maintained and/or refurbished in accordance with organisation policy and procedures, and Range Standing Orders.
- 3.2 Documentation and records are maintained in accordance with statutory, organisation requirements and Range Standing Orders.

Required Skills and Knowledge

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

Required Skills

- apply operational safety
- apply range requirements
- calculate and apply time and safety distance
- conduct calculations
- conduct site preparation and refurbishment
- develop and prepare risk analysis and instructions
- maintain documentation
- read, access, interpret and apply technical instructions

Required Knowledge

- characteristics and limitations of the explosive ordnance to be disposed
- compatibility requirements
- disposal procedures and requirements
- documentation requirements
- effects of environmental conditions
- emergency and contingency procedures
- environmental requirements for relevant explosive ordnance
- initiation procedures
- net explosive quantity calculations
- operational safety
- range requirements
- relevant testing procedures
- risk analysis
- safety distance calculation procedures
- site preparation and refurbishment requirements

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 operational safety including the risk analysis
- prepare and refurbish the disposal site or equipment
- prepare instructions and documentation
- apply net explosive quantity and compatibility limitations
- dispose of the explosive ordnance
- apply emergency and contingency procedures

Competency must also be demonstrated in a safe and efficient manner with minimal harmful effect on the surrounding environment.

Consistency in performance

Competency should be demonstrated in a range of actual or simulated explosive ordnance disposal 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:

- licensed range
- explosive ordnance to be disposed.

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

<p>The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. <i>Bold italicised</i> wording in the Performance Criteria is detailed below.</p>	
<p><i>Explosive ordnance</i> includes:</p>	<ul style="list-style-type: none"> • 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 • explosive ordnance in this competency does not include that which has malfunctioned/failed to function following attempted firing or ignition this being classed as unexploded ordnance and the subject of a different competency
<p><i>Organisation</i> may include:</p>	<ul style="list-style-type: none"> • defence organisation • enterprises that work with explosive ordnance • other government departments or instrumentalities that work with explosive ordnance
<p><i>Documentation and instructions</i> may include:</p>	<ul style="list-style-type: none"> • range instructions • risk analysis
<p><i>Preparation</i> may include:</p>	<ul style="list-style-type: none"> • calculation of safety distances including safety fuse burning times • confirmation that the demolition range is licensed for the explosive ordnance calibre, nature and quantity that is being disposed • tests including: <ul style="list-style-type: none"> • safety fuse • continuity tests on electric detonators • discontinuity tests on firing cables • continuity tests on firing cables • resistance tests on firing cables
<p><i>Disposal means</i> may be:</p>	<ul style="list-style-type: none"> • by burning in: <ul style="list-style-type: none"> • an ammunition pit • a furnace • a prepared open site • destruction/jettison at sea in accordance with current instructions

	<ul style="list-style-type: none">• ignition by electric or non-electric means
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Unit Sector(s)

Not applicable.