



Australian Government

DEFEO502D Conduct external explosive ordnance maintenance

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 conduct external maintenance on all types of explosive ordnance.

Application of the Unit

This competency normally applies to the individual who is required to conduct external maintenance on all types of explosive ordnance by the removal of rust and contaminants, cleaning, painting and stencilling standard markings.

Maintenance is carried out on the explosive ordnance while monitoring the environmental conditions and fully adhering to work health and safety (WHS) requirements. The unit only applies to the maintenance of explosive ordnance that does not require the removal of any explosive component.

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 maintenance	1.1 Requirement for <i>external maintenance</i> is identified from work requests/instructions and is confirmed 1.2 WHS requirements, including those contained in <i>organisational</i> procedures, are applied throughout the operation 1.3 <i>Technical references</i>, tools, equipment and <i>consumables</i> required for the maintenance are identified, acquired and prepared in accordance with organisation procedures 1.4 The explosive ordnance is acquired, identified and accounted for, moved or pre-positioned in preparation for maintenance 1.5 <i>Net explosive quantities</i> and <i>compatibility</i> are identified, calculated and assessed and applied throughout the operation
2. Maintain explosive ordnance	2.1 Explosive ordnance is maintained in accordance with organisation policy and procedures, and technical specifications 2.2 <i>Environmental conditions</i> are monitored and, where appropriate, maintained in accordance with organisation policy
3. Carry out post maintenance procedures	3.1 Explosive ordnance is <i>processed</i> in accordance with organisation procedures 3.2 Housekeeping procedures are conducted in accordance with workshop requirements 3.3 <i>Documentation and records</i> 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 compatibility constraints
- apply safety policies and structures
- apply WHS requirements
- calculate net explosive quantity
- communicate orally and in writing
- maintain documentation
- monitor environmental conditions
- read, access, interpret and apply technical instructions and drawings related to explosive ordnance maintenance

Required Knowledge

- assessment of compatibility
- calculation of net explosive quantity
- characteristics and limitations of explosive ordnance to be maintained
- environmental constraints
- maintenance procedures
- organisational documentation requirements
- organisational WHS requirements
- organisational safety policies and structures

Evidence Guide

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.

Assessment must also confirm the ability to work safely within an explosive ordnance environment and to:

- calculate and apply net explosive quantity
- assess and apply compatibility
- monitor and maintain environmental conditions
- process explosive ordnance
- 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 organisation 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.

<i>Explosive ordnance external maintenance</i> may include:	• Cleaning • Painting • Removal of rust and contamination • Stencilling standard markings
<i>Organisation</i> may include:	• Defence organisation • Enterprises that work with explosive ordnance • Other government departments or instrumentalities that work with explosive ordnance
<i>Technical references</i> may include:	• Technical drawings • Technical reference pamphlets • Orders and instructions • Other publications
<i>Consumables</i> may include:	• Cleaning materials • Packaging materials • Paint
<i>Net explosive quantities</i> include:	• Explosive capacity calculated in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance
<i>Compatibility</i> is:	• Assessed in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance and other hazardous materials
<i>Environmental conditions</i> may include:	• Heat • Humidity • Pressure
<i>Processing</i> may include:	• Passing for disposal • Preparing for issue • Returning to storage
<i>Documentation and records</i> may include:	• Receipt and issue records • Timesheets • Work records

Unit Sector(s)

Not applicable.