



Australian Government

DEFEO303D Monitor explosive ordnance environmental conditions

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 monitor *environmental conditions* related to explosive ordnance.

Application of the Unit

This competency normally applies to the individual who is required to monitor environmental conditions related to explosive ordnance in storage and under maintenance, and to identify and rectify problems.

The unit requires the individual to identify explosive ordnance that needs environmental controls, matching this to an appropriate storage facility and maintaining the requisite environmental conditions

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
<p>1. Identify explosive ordnance requiring environmental control</p>	<p>1.1 Explosive ordnance requiring environmental control is identified from <i>technical specifications</i> and in accordance with <i>organisational instructions</i> and <i>procedures</i></p> <p>1.2 Environmental requirements for short-term and long-term storage are selected to match explosive ordnance type</p> <p>1.3 Environmental limits for control are identified from technical specifications and in accordance with <i>organisational</i> instructions and procedures</p> <p>1.4 Storage separations and co-storage applications are identified and recorded in accordance with organisational instructions and procedures</p> <p>1.5 <i>Net explosives quantities</i> and <i>compatibility</i> are identified, calculated and monitored throughout the operation</p>
<p>2. Monitor explosive ordnance environmental conditions</p>	<p>2.1 Appropriate methods for determining environmental monitoring procedures of explosive ordnance are identified in accordance with organisational instructions and procedures</p> <p>2.2 Monitoring devices are operated/monitored in accordance with current instructions and procedures</p> <p>2.3 Storage areas are monitored for environmental standards in accordance with organisational instructions and procedures</p> <p>2.4 Explosive ordnance is monitored to ensure compliance with environmental storage requirements</p>
<p>3. Identify and rectify problems</p>	<p>3.1 Implications of incorrect environmental standards are identified in accordance with organisational instructions and procedures</p> <p>3.2 Causes related to loss of environmental standards are identified in accordance with organisational instructions and procedures</p> <p>3.3 Procedures related to <i>problem rectification</i> are implemented in accordance with organisational instructions and procedures</p>

Required Skills and Knowledge

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

Required Skills

- apply compatibility constraints
- apply corrective actions
- apply environmental constraints
- calculate and maintain net explosive quantity
- read, access, interpret and apply technical instructions and drawings related to environmental management of explosive ordnance

Required Knowledge

- compatibility constraints
- corrective actions to maintain environmental levels
- effects of environmental conditions
- environmental requirements for relevant explosive ordnance
- monitoring processes
- net explosive quantity calculations

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:

- identify explosive ordnance requiring environmental management
- identify appropriate environmental controls
- monitor the environment
- identify and rectify problems

Consistency in performance

Competency should be demonstrated over time and 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 under conditions which accurately simulate a realistic workplace in accordance with all relevant legislation and organisational requirements.

Evidence should be gathered through observation of the practical component and targeted questioning to assess underpinning knowledge.

Specific resources for assessment

Access is required to:

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

Method of assessment

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>Environmental conditions</i> may include:	<ul style="list-style-type: none"> • Air quality • Humidity • Pressure • Temperature
<i>Technical specifications</i> may be found in:	<ul style="list-style-type: none"> • Manufacturer's specifications • Materials safety data sheets (MSDS) • Operating procedures and policies • Supplier and/or client instructions
<i>Instructions and procedures</i> may include:	<ul style="list-style-type: none"> • Codes of practice • Explosive ordnance identification numbers and codes • Legislation and regulations • Manifests • Manufacturer's specifications • Materials safety data sheets (MSDS) • Operating procedures and policies • Quality assurance procedures • Standards and certification requirements • Supplier and/or client instructions
<i>Organisation</i> may include:	<ul style="list-style-type: none"> • Defence organisation • Enterprises that work with explosive ordnance • Other government departments or instrumentalities that work with explosive ordnance
<i>Net explosive quantities</i> include:	<ul style="list-style-type: none"> • The explosive capacity calculated in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance
<i>Compatibility</i> is:	<ul style="list-style-type: none"> • Assessed in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance and other hazardous materials
<i>Problem rectification</i> may include:	<ul style="list-style-type: none"> • Advising supervisor • Calling in contractor • Calling in maintenance staff

Unit Sector(s)

Not applicable.