



**Australian Government**

# **DEFEO715C Gauge explosive ordnance**

**Release: 2**

## DEFEO715C Gauge explosive ordnance

### 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 gauge explosive ordnance and/or components for inspection, testing, maintenance or to determine serviceability.

### Application of the Unit

This competency normally applies to the individual who is required to gauge explosive ordnance and/or components to confirm compliance with established design parameters and/or other specifications, references or publications.

Gauging requires the ability to work safely within an explosive ordnance environment and to:

- calculate and apply net explosive quantity
- assess and apply compatibility
- maintain documentation

### 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. <b>Prepare for gauging of explosive ordnance</b> | <p>1.1 Requirement for <b><i>explosive ordnance gauging</i></b> is identified from work requests/instructions and is confirmed</p> <p>1.2 Work health and safety (WHS) requirements, including those contained in organisational procedures, are applied throughout the operation</p> <p>1.3 <b><i>Technical references, tools and equipment</i></b> required for the gauging are identified, acquired and prepared in accordance with organisational procedures</p> <p>1.4 Explosive ordnance to be gauged is acquired, prepared, moved and positioned in preparation for the task</p> <p>1.5 <b><i>Net explosive quantities</i></b> and <b><i>compatibility</i></b> are identified, calculated, assessed and applied throughout the operation</p> <p>1.6 <b><i>Environmental conditions</i></b> are monitored and maintained in accordance with organisational policy</p> |
| 2. <b>Gauging explosive ordnance</b>                | <p>2.1 Explosive ordnance is gauged in accordance with organisational policy and procedures</p> <p>2.2 Emergency and contingency procedures are applied in accordance with organisational policy</p>  |
| 3. <b>Finalise the gauging operation</b>            | <p>3.1 Equipment/tools are maintained in accordance with organisational policy and procedures</p> <p>3.2 <b><i>Documentation and records</i></b> are maintained in accordance with statutory, <b><i>organisation</i></b> and workshop requirements</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 environmental constraints
- apply safety policies and structures
- calculate net explosive quantity
- conduct housekeeping
- maintain documentation
- read, access, interpret and apply technical instructions and drawings related to explosive ordnance gauging
- use tools and equipment

### Required Knowledge

- assessment of compatibility
- calculation of net explosive quantity
- characteristics and limitations of explosive ordnance to be gauged
- effects of environmental conditions
- gauging procedures
- operations, characteristics and limitations of tools and equipment required for the breaking down of explosive ordnance
- organisational documentation requirements
- organisational safety information sources
- organisational safety policies and structures

## 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:

- ensure the item is compliant upon completion of gauging task
- comply with organisational safety requirements and appropriate legislative and regulatory requirements

Assessment must also confirm the ability to:

- work safely within an explosive ordnance environment
- calculate and apply net explosive quantity
- assess and apply compatibility
- 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 workplace 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

<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. <b><i>Bold italicised</i></b> wording in the Performance Criteria is detailed below.</p>	
<p><b><i>Explosive ordnance gauging</i></b> may be conducted:</p>	<ul style="list-style-type: none"> <li>• To confirm continued compliance of the item to established design parameters</li> </ul>
<p><b><i>Technical references</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• Orders and instructions</li> <li>• Technical drawings</li> <li>• Technical reference pamphlets</li> <li>• Other publications</li> </ul>
<p><b><i>Tools and equipment</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• Beryllium tools</li> <li>• Special handling equipment</li> <li>• Special tools required for the gauging</li> </ul>
<p><b><i>Net explosive quantities</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• The explosive capacity calculated in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance</li> </ul>
<p><b><i>Compatibility</i></b> is:</p>	<ul style="list-style-type: none"> <li>• Assessed in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance and other hazardous materials</li> </ul>
<p><b><i>Environmental conditions</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• Air quality</li> <li>• Heat</li> <li>• Humidity pressure</li> </ul>
<p><b><i>Documentation and records</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• Receipt and issue records</li> <li>• Timesheets</li> <li>• Work records</li> </ul>
<p><b><i>Organisation</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• Defence organisation</li> <li>• Enterprises that work with explosive ordnance</li> <li>• Other government departments or instrumentalities that work with explosive ordnance</li> </ul>

## **Unit Sector(s)**

Not applicable.