



Australian Government

DEFEO509D Perform purging

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 purge explosive ordnance or containers.

Application of the Unit

This competency normally applies to the individual who is required to purge explosive ordnance or containers.

Purging of explosive ordnance or containers is required to be performed on a range of explosive ordnance and specialised containers during maintenance processes.

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 testing	1.1 Purging requirements are identified from work requests/instructions and are confirmed 1.2 Work health and safety (WHS) requirements, including those contained in organisational procedures, are applied throughout the operation 1.3 Technical references, tools and equipment required for the tests are identified, acquired and prepared in accordance with organisation procedures 1.4 Explosive ordnance or containers are identified, acquired, prepared, moved and positioned in preparation for the task 1.5 Purging equipment is prepared and the required flow and pressure specifications are set in accordance with organisation procedures 1.6 Net explosive quantities and compatibility are identified, calculated, assessed and applied throughout the operation 1.7 Environmental conditions are monitored and maintained in accordance with organisation policy
2. Conduct and monitor purging	2.1 Purging process is monitored in accordance with organisation procedures 2.2 Explosive ordnance or container is purged in accordance with organisation policy and procedures 2.3 Emergency and contingency procedures are applied in accordance with organisation policy
3. Finalise purging procedures	3.1 Explosive ordnance or containers are processed in accordance with the requirements specified in the work request 3.2 Equipment/tools are maintained in accordance with organisation policy and procedures 3.3 Documentation and records 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 environmental constraints
- apply safety policies and structures
- calculate net explosive quantity
- communicate orally and in writing
- conduct housekeeping
- identify gases used for purging
- maintain documentation
- monitor pressures
- operate purging equipment
- read, access, interpret and apply technical instructions and drawings related to purging

Required Knowledge

- assessment of compatibility
- calculation of net explosive quantity
- characteristics and limitations of purging equipment
- effects of environmental conditions
- gases used for purging
- operability of purging equipment
- organisational documentation requirements
- organisational safety policies and structures
- organisational safety information sources

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
- 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>Purging</i> may include:	• Maintenance of specified pressures • Replacement of air with another gas • Total evacuation of air
<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>Containers</i> may include:	• Missile containers • Torpedo containers • Other pressurised containers
<i>Net explosive quantities</i> include:	• The 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:	• Air quality • Heat • Humidity • Pressure
<i>Monitoring</i> may include:	• Maintaining specified pressures
<i>Processing</i> may include:	• Forwarding explosive ordnance or containers for inspection, testing, maintenance, storage or issue, and may include some additional preparation such as packaging
<i>Documentation and records</i> may include	• Receipt and issue records • Timesheets • Work records

Unit Sector(s)

Not applicable.