



Australian Government

DEFEO101D Work safely with explosive ordnance

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 achieve a safe work environment when working with explosive ordnance.

Application of the Unit

This competency normally applies in any installation or organisation involved in the storage, distribution, maintenance and use of explosive ordnance; this includes research and development establishments, and proof and experimental establishments.

Explosive ordnance being all munitions containing explosives, nuclear fission or fusion materials, and biological and chemical agents.

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. Access and apply safety procedures	1.1 <i>Safety procedures and instructions</i> are accessed and clarified 1.2 All work is conducted within the requirements of <i>organisational</i> permit-to-work and/or tag out procedures 1.3 Breaches in site safety are identified and acted on or reported in accordance with organisational reporting procedures 1.4 Load handling and shifting procedures are selected in accordance with identified requirements for particular goods 1.5 Handling equipment is checked for conformity with workplace requirements and manufacturer's guidelines 1.6 Where relevant, suitable signage is checked for compliance with workplace procedures
2. Apply personal safety measures	2.1 <i>Personal protective measures</i> are followed in accordance with organisational policy and procedures 2.2 Safety of immediate working area and equipment is established and maintained in accordance with organisational policy, procedures and directives 2.3 Relevant authorisation is obtained before specialised and hazardous work is carried out in accordance with organisational procedures and directives
3. Apply dangerous goods and hazardous substances requirements	3.1 Individual responsibilities regarding <i>dangerous goods and hazardous substances</i> are recognised and applied 3.2 Legislative requirements for hazardous substances and/or dangerous goods are understood and are used to plan work activities 3.3 Dangerous goods and hazardous substances labels and characteristics are identified and recognised, and relevant action/criteria is applied 3.4 Confirmation is sought from relevant personnel where dangerous goods or hazardous materials do not appear to be appropriately marked 3.5 Dangerous goods and hazardous substances are stored in accordance with the relevant compatibility, separation constraints and security requirements 3.6 Dangerous goods and hazardous substances are

ELEMENT**PERFORMANCE CRITERIA****4. Apply net explosive quantity and compatibility**

handled and moved in accordance with legislative requirements and organisational procedures

4.1 Documentation and licensing limitations are identified and/or acquired in accordance with organisational policy and procedures

4.2 *Net explosive quantity* is applied in accordance with statutory requirements and organisational policy and procedures

4.3 *Compatibility* is applied in accordance with statutory requirements and organisational policy and procedures

5. Identify and report incidents

5.1 Incidents and injuries are identified, recorded and *reported* in accordance with organisational procedures

5.2 Participation in incident investigations is conducted in accordance with the responsibilities and protection under legislation

Required Skills and Knowledge

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

Required Skills

- access, read, interpret and apply information on safety
- apply area safety procedures
- apply compatibility
- apply net explosive quantity
- apply safe manual handling procedures
- comply with hazardous materials requirements
- encourage other team members
- follow instructions/directives and report information
- identify and report hazards and incidents
- identify, select and use personal protection measures
- read to a level required to interpret job instructions, workplace forms and reports
- use a variety of verbal and non-verbal communication techniques
- write at the level required to complete workplace documentation and reports

Required Knowledge

- application of compatibility
- application of net explosive quantity
- composition of teams and roles and responsibilities of team members
- hazard and incident identification and reporting techniques
- hazardous materials requirements
- manual handling procedures
- organisational safety policies and structures
- organisational safety information sources
- personal protection measures
- safety and advisory signs
- team work
- techniques for supporting others
- verbal and non-verbal communication techniques
- written communication to a level required to complete workplace documentation and reports

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 organisational safety requirements, and appropriate legislative and regulatory requirements.

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

- identify, select and use personal protective measures
- apply safe manual handling practices
- apply net explosive quantity
- apply compatibility
- identify and report hazards and incidents
- participate in incident investigations

Consistency in performance

Competency should be demonstrated over time and observed 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 and in accordance with all relevant legislation and organisational requirements.

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

Specific resources for assessment

Access is required to:

- facilities and resources used in the storage, distribution or maintenance of explosive ordnance.

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.

Explosive ordnance may include:

- All munitions containing explosives, nuclear fission or fusion materials and biological and chemical agents, including:
 - all mines, torpedoes and depth charges
 - artillery, mortar, rocket and small arms ammunition
 - bombs and warheads
 - cartridge and propellant actuated devices
 - clandestine and other improvised explosive devices
 - clusters and dispensers
 - demolition charges
 - electro explosive devices
 - guided and ballistic missiles
 - pyrotechnics
 - all similar or related items or components explosive in nature

Safety procedures and instructions may include:

- explosive ordnance governance regulations, policy and procedures
- organisational instructions

Organisation may include:

- defence organisation
- enterprises that work with explosive ordnance
- other government departments or instrumentalities that work with explosive ordnance

Personal protective measures may include:

- adherence to all work health and safety (WHS) regulations, policy and procedures
- organisational instructions
- personal protective equipment

Dangerous goods and hazardous substances may include:

- any item that is identified by the UN Classification System for Dangerous Goods

Net explosive quantity includes:

- explosive capacity calculated in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance

Compatibility is:

- applied in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance and other hazardous materials

Reports may include:

- approved forms
- verbal

- | • written

Unit Sector(s)

Not applicable.