



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFEO601D Assess explosive ordnance firings

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency required to prepare and fire explosive ordnance and to conduct an assessment of the explosive ordnance firing in support of explosive ordnance assessment.

This unit does not require the use of sophisticated measuring or tracking equipment.

Application of the Unit

Application of the Unit

This competency normally applies to the individual who is required to prepare and fire explosive ordnance and conduct an assessment of the explosive ordnance firing in support of explosive ordnance assessment.

Assessment of explosive ordnance is a process used to determine whether the explosive ordnance is performing within specified tolerances.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Pre-requisite Unit/s Nil

Employability Skills Information

Employability Skills 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 Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1. Prepare for firing

- 1.1 Requirements for firing of *explosive ordnance* are identified and clarified
- 1.2 Occupational health and safety (OH&S) requirements including those specific to the nature of the ordnance are identified and applied throughout the operation
- 1.3 Firing methods are confirmed in accordance with policy and procedures
- 1.4 Liaison with and notification of parties affected by the firing is undertaken in accordance with Range Standing Orders and local requirements
- 1.5 Site/equipment preparation is completed in accordance with *organisation* policy and procedures, and Range Standing Orders
- 1.6 *Net explosive quantities* are identified, calculated and monitored throughout the operation
- 1.7 *Compatibility* is identified, analysed and applied throughout the operation
- 1.8 *Test equipment* is set up in accordance with instructions

ELEMENT**PERFORMANCE CRITERIA****2. Fire explosive ordnance**

- 2.1 Explosive ordnance and firing mechanisms are prepared and tested in accordance with Range Standing Orders and organisation policy
- 2.2 Explosive ordnance is *fired* in accordance with Range Standing Orders and organisation policy
- 2.3 Residue is inspected to ensure all explosives have been fired in accordance with Range Standing Orders
- 2.4 *Measurements* are taken and recorded in accordance with instructions

3. Finalise the firing process

- 3.1 Recorded measurements are assessed against standards and results are documented in accordance with organisation policy and procedures
- 3.2 Site/equipment is maintained and/or refurbished in accordance with policy and procedures, and Range Standing Orders
- 3.3 Documentation and records are maintained in accordance with policy and Range Standing Orders

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- access, interpret and apply technical information related to ordnance to be assessed
- apply OH&S requirements
- assess measured results
- maintain documentation and records

Required Knowledge

- characteristics, technical capabilities and limitations of explosive ordnance to be assessed
- measuring and recording processes
- relevant OH&S requirements
- reporting and documentation requirements

Evidence Guide

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:

- adhere to relevant OH&S requirements and operational safety
- identify firing requirements and constraints
- accurately record results in accordance with firing instructions
- compile documentation.

Consistency in performance

Competency should be demonstrated in a range of actual or simulated explosive ordnance contexts.

EVIDENCE GUIDE

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. The competency should be assessed in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance and other hazardous materials.

Specific resources for assessment

Access is required to:

- facilities and resources used in the assessing of explosive ordnance, including a licensed explosive site or range.

Method of assessment

This unit may be assessed with the following unit:

- PUADEFEO101D 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

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.

<p>Explosive ordnance to be fired may include</p>	<p>Aerial delivered ordnance Actuating devices Demolition stores Free flight rockets Fuzes Grenades Guided weapons Gun ammunition Mines Missile motors Missiles Mortars Propellants Pyrotechnics and countermeasures Rocket motors Small arms ammunition Warheads</p>
<p>Organisation may include</p>	<p>Defence organisation Enterprises that work with explosive ordnance Other government departments or instrumentalities that work with explosive ordnance</p>
<p>Net explosive quantities may include</p>	<p>The explosive capacity calculated in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance</p>
<p>Compatibility is</p>	<p>Assessed in a wide range of activities related to the storage, distribution and maintenance of explosive ordnance and other hazardous materials</p>
<p>Test equipment may include</p>	<p>Cameras</p>

RANGE STATEMENT**Measurements may include**

Targets
Timing devices
Continuity tests on electric detonators
Continuity test on firing cables
Discontinuity test on firing cables
Fuze actions
Resistance test on firing cables
Safety fuze burning times
Weapon/ammunition/warhead/explosive effect

Unit Sector(s)

Not applicable.