



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCA416C Employ hand operated pyrotechnics

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency required to effectively employ pyrotechnics.

Pyrotechnics are usually used for illumination, signalling and obscuration.

Application of the Unit

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This unit of competency was developed for members of the Australian Defence Force but is applicable to any individual in this field of work.

The pyrotechnic operator will normally act independently. Pyrotechnics are normally carried by the individual who is often employed as part of a team.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability Skills This unit contains employability skills.

Pre-requisite Unit/s Nil

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. Handle pyrotechnics

- 1.1 *Pyrotechnics* are ***identified*** and selected according to operational requirements
- 1.2 Pyrotechnics are safely handled and carried in accordance with ***standard procedures***
- 1.3 ***Operating positions*** are adopted as required by circumstances and type of pyrotechnic
- 1.4 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation
- 1.5 Environmental factors are monitored to ensure safety

2. Operate pyrotechnics

- 2.1 Pyrotechnics are ***activated*** in accordance with standard procedures
- 2.2 Outcome required from using pyrotechnics is achieved
- 2.3 Environmental impact arising from use of pyrotechnics is minimised and waste products are recovered

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- apply recognised safety precautions

Required Knowledge

- characteristics, technical capabilities, effects, employment and limitations of the pyrotechnics
- OH&S requirements
- recognised safety precautions

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:

- apply OH&S requirements and recognised safety precautions at all times.

Consistency in performance

Competency should be demonstrated in a range of actual deployments of hand operated pyrotechnics.

EVIDENCE GUIDE

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in an actual or simulated workplace environment by observing the use of hand operated pyrotechnics during the day and at night.

Specific resources for assessment

Access is required to:

- pyrotechnics.

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

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.

Pyrotechnics may include	Battle effect simulators Day/night flares Parachute flares Signal flares Smoke dispensers Smoke grenades Trip flares
Identifying pyrotechnics may include	Colour Hazard band Markings Shape
Standard procedures may include	Australian Standards Defence Instructions Doctrine pamphlets Job guides, other publications Manufacturers' handbooks, industry specifications and technical instructions OH&S regulations Organisational policies and procedures Procedure manuals Relevant local government by laws Relevant state/territory or federal legislation Routine Orders Standing Operating Procedures Standing Orders <ul style="list-style-type: none"> • Written and verbal orders
Operating positions may include	Lying Standing

RANGE STATEMENT

Activating pyrotechnics may include	Kneeling
	Firing/launching
	Pulling
	Throwing

Unit Sector(s)

Not applicable.