



Australian Government

DEFCA416C Employ hand operated pyrotechnics

Release: 2

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Modification History

Release	TP Version	Comments
2	DEF12 V2	Unit descriptor updated Application added Minor Range Statement change Evidence Guide updated
1	DEF12 V1	Release

Unit Descriptor

This unit covers the competency required to effectively employ pyrotechnics in the Australian Defence Force (ADF). Pyrotechnics are usually used for illumination, signalling and obscuration.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication. In a Defence context, this means that there is no civilian need to hold this unit in order to meet licensing, legislative, regulatory or certification requirements.

Application of the Unit

This competency was developed for combat arms personnel required to employ pyrotechnics in a deployed operational environment but is applicable to any individual in this field of work. Typically, operators work independently under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their outputs. All activities are carried out in accordance with relevant organisational policies and procedures.

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. Handle pyrotechnics	<p>1.1 <i>Pyrotechnics</i> are <i>identified</i> and selected according to operational requirements.</p> <p>1.2 Pyrotechnics are safely handled and carried in accordance with <i>standard procedures</i>.</p> <p>1.3 <i>Operating positions</i> are adopted as required by circumstances and type of pyrotechnic.</p> <p>1.4 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation.</p> <p>1.5 Environmental factors are monitored to ensure safety.</p>
2. Operate pyrotechnics	<p>2.1 Pyrotechnics are <i>activated</i> in accordance with standard procedures.</p> <p>2.2 Outcome required from using pyrotechnics is achieved.</p> <p>2.3 Environmental impact arising from use of pyrotechnics is minimised and waste products are recovered.</p>

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
- WHS requirements
- recognised safety precautions

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 safely employ pyrotechnics for illumination, signalling and obscuration.

Consistency in performance

Competency should be demonstrated over time and across a range of simulated or actual workplace situations.

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 to pyrotechnics.

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>Pyrotechnics</i> may include:	<ul style="list-style-type: none"> • battle effect simulators • day/night flares • parachute flares • signal flares • smoke dispensers • smoke grenades • trip flares
<i>Identifying pyrotechnics</i> may include:	<ul style="list-style-type: none"> • colour • hazard band • markings • shape
<i>Standard procedures</i> may include:	<ul style="list-style-type: none"> • Australian Standards • defence instructions • doctrine pamphlets • job guides, other publications • manufacturers' handbooks, industry specifications and technical instructions • WHS 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 • written and verbal orders
<i>Operating positions</i> may include:	<ul style="list-style-type: none"> • lying • standing • kneeling
<i>Activating pyrotechnics</i> may include:	<ul style="list-style-type: none"> • firing/launching • pulling • throwing

Unit Sector(s)

Not applicable.