



Australian Government

DEFEXO044 Maintain pyrotechnics and countermeasures

Release: 3

DEFEXO044 Maintain pyrotechnics and countermeasures

Modification History

Release 3. Assessment Conditions clarified in relation to simulation being an assessment option.

Release 2. Modifications made to Foundation Skills and Assessment Conditions.

Release1. This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages.

This unit supersedes and is equivalent to DEFEO514D Maintain pyrotechnics and countermeasures.

- Unit code updated
- Content and formatting updated to comply with the new standards
- All PC transitioned from passive to active voice
- PC 1.2 removed
- PC 3.1 reworded

Application

This unit describes the skills required to maintain pyrotechnics and countermeasures to requirements as specified by Defence or the original equipment manufacturer. The unit includes the identification and selection of tools and equipment, the application of organisational safety requirements and appropriate legislative and regulatory requirements.

This unit applies to those required to maintain pyrotechnics and countermeasures to requirements as specified by Defence or the original equipment manufacturer.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would work independently and as part of a team, under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their output. They would perform specific tasks in a range of contexts.

No licensing, legislative or certification requirements apply to unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Explosive Ordnance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|--|---|
| 1 Prepare for maintenance | 1.1 Identify, analyse and confirm maintenance requirements of pyrotechnics and countermeasures |
| | 1.2 Identify, acquire and confirm pyrotechnics and countermeasures to be maintained |
| | 1.3 Identify, acquire and prepare technical references, tools, equipment, consumables and packaging components |
| | 1.4 Identify, calculate, assess and apply net explosive quantities and compatibility |
| | 1.5 Monitor and maintain environmental conditions |
| 2 Maintain pyrotechnics and countermeasures | 2.1 Inspect pyrotechnics and countermeasures |
| | 2.2 Conduct authorised maintenance |
| | 2.3 Interpret emergency procedures and apply contingency plans |
| | 2.4 Conduct and record required tests |
| 3 Finalise the maintenance activity | 3.1 Return pyrotechnics and countermeasures to storage or transport condition |
| | 3.2 Ensure serviceability of equipment/tools |
| | 3.3 Conduct housekeeping procedures |
| | 3.4 Maintain documentation and records |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit supersedes and is equivalent to DEFEO514D Maintain pyrotechnics and countermeasures.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Assessment Requirements for DEFEXO044 Maintain pyrotechnics and countermeasures

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- conducting manual handling and using team lifting techniques
- conducting tests
- handling dangerous goods and hazardous substances
- identifying and selecting appropriate tools and equipment
- identifying types of pyrotechnics and countermeasures
- using PPE.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include:

- basic knowledge of
 - legislative and regulatory requirements while maintaining pyrotechnics and countermeasures
 - organisational safety requirements
- operational knowledge of
 - colour coding, marking and labels
 - documentation requirements

- effects of environmental conditions
- maintenance procedures
- operational safety
- operations, characteristics and limitations of pyrotechnics and countermeasures to be maintained
- operations, characteristics and limitations of tools and equipment used in maintenance
- testing procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and PPE currently used in industry.

Links

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