



Australian Government

DEFEXO127 Predict and confirm explosive effects

Release: 2

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Modification History

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

Release 1. 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 DEFEO006 Predict and confirm explosive ordnance effects.

- Unit code updated
- Content and formatting updated to comply with the new standards
- All PC transitioned from passive to active voice
- Unit title changed to better reflect unit outcomes
- PC 1.3, 1.4, 2.1, 2.3 and 3.1 removed
- PC 1.1 and 1.2 merged
- PC 4.1 and 4.2 merged
- PC 3.4 and 3.5 merged and revised
- Element 1 reworded and one new PC
- Elements 2 and 3 and 4 merged and reworded

Application

This unit describes the skills required to predict and confirm explosive effects. It includes the requirement to identify the explosive, predict its effects through analysis and identify the explosive. The activity will generally include the test detonation of the explosive using the actual conditions or simulation to confirm the prognosis.

This unit applies to those required to predict the likely effect of the detonation of explosives and then confirm the prognosis.

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 make high level, fully independent judgements, applying a detailed knowledge of explosives, analysing complex data and producing specific documents detailing the outcomes of highly specialised technical functions. They would perform sophisticated tasks in highly specialised operational 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.

1 Gather information for activity

2 Identify, analyse and report explosive effects

PERFORMANCE CRITERIA

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

1.1 Receive and confirm customer requirements

1.2 Identify and apply safety and security requirements

1.3 Research explosives to identify known effects for constituents and combinations

1.4 Identify combinations that produce required effects

2.1 Predict probable effects of explosive detonation in required environment

2.2 Develop tests to evaluate effect of explosive detonation in required environment

2.3 Identify and prepare equipment, tools and stores required for post blast analysis

2.4 Conduct tests

2.5 Conduct and record post blast analysis

2.6 Analyse and match the explosive effects to those predicted

2.7 Refine the prediction and/or repeat the tests where discrepancies occur

2.8 Seek specialist advice when discrepancies remain in analysis results

2.9 Document and process test outcomes

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 DEFEO006 Predict and confirm explosive ordnance effects.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>