



Australian Government

DEFEXO071 Test for the presence of explosive substances

Release: 2

DEFEXO071 Test for the presence of explosive substances

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 DEFEO716C Test for explosive substances.

- Unit code updated
- Content and formatting updated to comply with the new standards
- All PC transitioned from passive to active voice
- PC 1.2 and 1.6 removed

Application

This unit describes the skills required to conduct material testing to determine the presence of an explosive substance. It includes the requirements for planning tests, carrying out tests, performing analysis, and recording and reporting test results.

This unit applies to those required to conduct material testing to determine the presence of an explosive substance.

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/or as part of a team, under indirect supervision. They would use discretion and judgement and take responsibility for the quality of their outputs, while performing routine 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.

1 Plan and prepare for testing

2 Conduct tests

3 Finalise the testing procedures

PERFORMANCE CRITERIA

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

1.1 Identify requirement for substances testing from work requests/instructions

1.2 Select appropriate testing methods

1.3 Identify, acquire and prepare technical references, testing tools and equipment

1.4 Confirm security of the test site

2.1 Perform tests to identify properties of the substances

2.2 Compare test results with standards, charts and tables in order to identify unknown materials

2.3 Interpret emergency procedures and apply contingency plans

3.1 Determine and carry out sentencing action

3.2 Complete and maintain documentation, records and related reports

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 DEFEO716C Test for explosive substances.

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 DEFEXO071 Test for the presence of explosive substances

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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 includes:

- applying analysis techniques and technologies
- applying safety policies and structures
- handling dangerous goods and hazardous substances
- using manual handling and team lifting techniques
- using PPE
- using testing tools and equipment

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 includes:

- operational knowledge of:
 - characteristics and limitations of testing equipment
 - explosive chemistry
 - organisational documentation requirements
 - properties and characteristics of explosives
 - properties and characteristics of testing chemicals

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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