

DEFEXO124 Perform exploive tests, measurements and analyses

Release: 1

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Modification History

Release	Comments	
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 DEFEO604C Perform explosive tests, measurements and analyses.	
	 Unit code updated Content and formatting updated to comply with the new standards All PC transitioned from passive to active voice PC 1.4 removed 	

Application

This unit describes the skills required to conduct explosive material tests and/or experiments in an explosive research environment. It includes planning the tests or analyses, carrying out tests and measurements, performing quantitative and qualitative analysis, documenting and evaluating new procedures, and recording and validating the test results.

This unit applies to those required to conduct explosive material tests and/or experiments in an explosive research environment.

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 as part of a team under indirect supervision, using discretion and judgement and taking responsibility for the quality of their outputs. They would perform complex tasks in a range of contexts.

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

Competency Field

Explosive Ordnance

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Elements and Performance Criteria

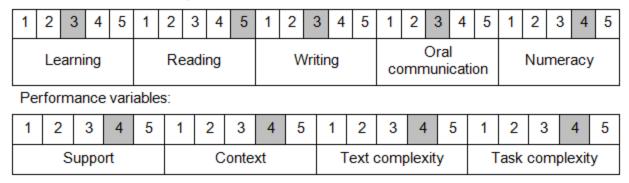
ELEMENTS		PERFORMANCE CRITERIA
Elements describe the essential outcomes		Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1.	Plan tests or analyses	1.1 Identify explosive sample and determine test or analysis requirements.
		1.2 Select appropriate methods and assemble, set up and calibrate the required testing apparatus.
		1.3 Perform routine standardisation procedures prior to the test or analysis and record results.
2.	Develop specialised tests	2.1 Locate, discuss and confirm relevant technical information with other staff.
	or analyses	2.2 Develop experimental design in liaison with other staff.
		2.3 Arrange the building or purchase of necessary equipment given project constraints and available skills and materials.
		2.4 Trial, document and evaluate new procedures.
3.	Perform qualitative analysis	 3.1 Perform qualitative tests to observe explosive properties. 3.2 Compare data with standards, charts, tables, and spectra in order to identify known or unknown materials and their properties. 3.3 Perform tests or analyses efficiently and within the timeframe.
4.	Perform quantitative analysis	 4.1 Perform quantitative tests to measure explosive properties. 4.2 Use available computer technology to control instruments or acquire/translate/convert data to optimise test accuracy. 4.3 Check samples and analyses when non-standard results are obtained. 4.4 Complete tests or analyses within the timeframe.
5.	Record and validate results	 5.1 Record data using appropriate worksheets and/or information management systems. 5.2 Analyse data for anomalies and 'out of control' conditions and accept or reject. 5.3 Assess data for validity against quantity and compatibility information, known standards and reference materials. 5.4 Modify test procedures, if necessary, under supervision.

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Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:



Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to DEFEO604C Perform explosive tests, measurements and analyses.

Links

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

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