



Australian Government

DEFEXO012 Conduct electrical/electronic circuitry tests

Release: 3

DEFEXO012 Conduct electrical/electronic circuitry tests

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.

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 DEFEO508D Conduct electrical/electronic circuitry tests.

- 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 set up and conduct simple electrical/electronic circuitry tests on explosive ordnance or component parts. These tests are required to be conducted on a wide range of explosive ordnance during maintenance procedures.

This unit applies to those required to set up and conduct simple electrical/electronic circuitry tests on explosive ordnance or component parts.

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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare electrical/electronic circuitry for testing

- 1.1** Identify testing requirements from work requests/instructions
- 1.2** Identify, acquire and prepare technical references, tools and equipment required for the tests
- 1.3** Identify, acquire, prepare, move and position explosive ordnance or component parts in preparation for the task
- 1.4** Identify, calculate and assess net explosive quantities and compatibility and apply throughout the operation
- 1.5** Monitor and maintain environmental conditions

2 Conduct electrical/electronic circuitry tests

- 2.1** Conduct required tests
- 2.2** Record and maintain test results
- 2.3** Interpret emergency procedures and apply contingency plans

3 Finalise post test procedures

- 3.1** Return explosive ordnance or component parts to storage
- 3.2** Ensure serviceability of equipment/tools
- 3.3** 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 DEFEO508D Conduct electrical/electronic circuitry tests.

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 DEFEXO012 Conduct electrical/electronic circuitry tests

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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:

- applying environmental constraints
- conducting housekeeping
- demonstrating manual handling techniques and team lifting techniques
- operating testing equipment
- 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
 - electrical theory relevant to the tests
 - explosive licence limits
 - functioning of explosive ordnance
- operational knowledge of
 - characteristics and limitations of testing equipment
 - effects of environmental conditions
 - operability of test equipment

- operations, characteristics and limitations of other tools and equipment relevant to the testing
- organisational documentation requirements
- 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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