



Australian Government

DEFEXO155 Provide survey data for proof and experimental firing

Release: 2

DEFEXO155 Provide survey data for proof and experimental firing

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 DEFEO814A Provide survey data for proof and experimental firing.

- Unit code updated
- Content and formatting updated to comply with the new standards
- All PC transitioned from passive to active voice
- PC 3.1 and 3.2 merged

Application

This unit describes the skills required to conduct surveys and to produce survey data in support of proof and experimental firings. This survey can be conducted by two people; one person being the observer and the other recording data – this unit of competency covers both roles. The production of survey data is crucial in the setting up and validation of a number of these proof tests. It applies in a physical science or engineering environment where a product undergoes testing to establish that it meets established standards and/or specifications.

This unit was developed for survey specialists working within proof and experimental organisations in Defence, but is applicable to any individual in this field of work.

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 typically work independently and as part of a team under direct and/or indirect supervision. They use discretion and judgement, and take responsibility for the quality of their output. They would perform complex tasks in known 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.

1 Prepare for survey

- 1.1 Brief stakeholders and test participants in accordance with test plan
- 1.2 Check and initiate safety systems and procedures in accordance with test plan
- 1.3 Identify purpose and requirements of survey from written or oral instruction
- 1.4 Confirm and clarify survey specifications
- 1.5 Select and check for serviceability equipment required for survey in accordance with manufacturers' instructions

2 Conduct survey tasks

- 2.1 Operate survey equipment to determine orientation, fixation and other requirements as determined by the survey scheme
- 2.2 Record survey data
- 2.3 Check visual clues in measurements or data for omissions or errors
- 2.4 Communicate survey data
- 2.5 Establish and record survey control points
- 2.6 Communicate regularly with supervisor and colleagues
- 2.7 Maintain survey equipment

3 Finalise survey tasks

- 3.1 Complete and store survey data and documentation
- 3.2 Check survey data integrity in accordance with the test plan

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 DEFEO814A Provide survey data for proof and experimental firing.

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 DEFEXO155 Provide survey data for proof and experimental firing

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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:

- interpreting data
- maintaining survey data and documentation
- providing survey data required to conduct proof firings
- recording information
- using communication systems

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:
 - analytical processes
 - characteristics, tabulated data and limitations of the survey equipment
 - communication procedures
 - principles of survey

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.

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