



Australian Government

DEFTST010 Conduct test and evaluation processes

Release: 1

DEFTST010 Conduct test and evaluation processes

Modification History

Release 1. This is the first release of this unit of competency in the DEF Defence Training Package.

Application

This unit describes the skills and knowledge required to conduct test and evaluation processes.

It includes conducting test and evaluation, monitoring test and evaluation processes, finalising test and evaluation processes and analysing test and evaluation evidence.

It also includes managing the testing process, capturing data and adhering to the test plan.

This unit was developed for Defence test and evaluation workers but is applicable to individuals who work in this field.

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 or as part of a team, under direct and indirect supervision, use discretion and judgement, and take responsibility for the quality of their output. They would perform complex 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

Test and Evaluation.

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

1 Conduct test and evaluation

- 1.1** Obtain and comply with test plan
- 1.2** Conduct activity briefs
- 1.3** Check and initiate safety systems and procedures
- 1.4** Coordinate test and evaluation activities
- 1.5** Perform qualitative and quantitative tests to observe and measure relevant critical parameters
- 1.6** Collect and record test data

2 Monitor test and evaluation processes

- 2.1** Monitor and amend test plans based on changing circumstances in consultation with team members, and include precise details for schedules of activities, milestones and resources
- 2.2** Identify risks and apply risk management processes
- 2.3** Apply management tools throughout the process to achieve outcomes
- 2.4** Compare data with standards, charts and tables in order to meet compliance with required specification or test-specific requirements
- 2.5** Check initial analyses against test plan procedures when non-standard results are obtained
- 2.6** Recognise and manage contingencies

3 Finalise test and evaluation processes

- 3.1** Evaluate testing process, equipment performance and achievement against objectives and report initial results
- 3.2** Maintain security and confidentiality of data
- 3.3** Debrief stakeholders and test participants
- 3.4** Forward test data for analysis
- 3.5** Review and amend management plans and any related contracts as appropriate
- 3.6** Conduct review of objectives and achievement and prepare outcomes for test report

4 Analyse test and

- 4.1** Identify, access and collate testing evidence in accordance

evaluation evidence

with test plan

- 4.2 Determine evaluation criteria
- 4.3 Verify data relevance and accuracy
- 4.4 Identify data outliers and rectify data errors
- 4.5 Assess evidence against estimations and expectations in accordance with evaluation criteria
- 4.6 Identify trends in evidence and detail the significance of the trend
- 4.7 Conduct data comparisons to determine the validity of outcomes in accordance with evaluation criteria
- 4.8 Utilise management tools
- 4.9 Determine test outcomes in conjunction with stakeholders

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 DEF Defence Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit supersedes and is not equivalent to DEFTST003 Conduct testing processes.

Links

Companion Volume Implementation Guides are found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Assessment Requirements for DEFTST010 Conduct test and evaluation processes

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and include:

- analysing and evaluating test evidence
- applying relevant legislation, organisational policy and procedures that may impact on the test and evaluation processes
- collecting and recording test data
- using management techniques related to testing that may be reasonably complex in terms of scope; degree of risk; environmental, political, cultural and social factors that apply; consequences of failure and degree of control
- using management tools suited to the conduct of testing processes.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and include knowledge of:

- contingency planning and management processes
- integrated logistics support and scheduling packages
- legislation, organisational policy and procedures that may impact on the test and evaluation processes
- management of change
- management tools suited to the conduct of test and evaluation activities and processes
- principles relating to the conduct phase of test and evaluation
- principles relating to the evaluation of test processes
- record keeping requirements
- resource management
- test and evaluation processes which may be reasonably complex in terms of scope; degree of risk; environmental, political, cultural and social factors that apply; consequences of failure and degree of control
- test preparations and preconditions of test conduct.

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 it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate 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
- applicable documentation, including legislation, regulations, codes of practice, workplace procedures and operation manuals
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry.

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