



Australian Government

DEFTST013 Plan test and evaluation processes

Release: 1

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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 plan test and evaluation processes.

It includes identifying test requirements and undertaking scoping, determining test and evaluation methodology, developing and finalising test and evaluation plans.

This unit was developed for Defence test and evaluation workers but is applicable to any 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 sophisticated 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 essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Identify test and evaluation requirements and undertake scoping**
 - 1.1 Analyse the need for test and evaluation
 - 1.2 Undertake definition study, define system under test and determine scope and boundaries of the test and evaluation process
 - 1.3 Identify and engage with stakeholders to ensure requirements are addressed in planning
- 2 Determine test and evaluation methodology**
 - 2.1 Undertake research and analyse to identify, assumptions, risks, constraining factors, impacts, alternate options and variations
 - 2.2 Analyse methodology, technical feasibility, supportability and cost-effectiveness and define reporting outcomes
 - 2.3 Assess alternatives for test and evaluation design
 - 2.4 Identify preferred test and evaluation options that best fits organisational requirements
 - 2.5 Consult relevant specialists to determine extent of potential risks
 - 2.6 Prepare business case and obtain approvals to proceed with test development
- 3 Develop test and evaluation plans**
 - 3.1 Design and document planning process utilising management tools, in accordance with test and users' requirements, in consultation with specialists
 - 3.2 Define aims, objectives and impacts in test plan and timeframes
 - 3.3 Identify resources to complete quality deliverables on time and within budget
 - 3.4 Determine test methods by consideration of resource constraints, environmental constraints, evidence requirements, existing capabilities and their compatibility with existing procedures
 - 3.5 Describe test conditions, tolerances, techniques, environments and the basis for assessment
 - 3.6 Develop indicators to monitor test performance and seek agreement by relevant stakeholders
 - 3.7 Investigate potential risks and identify them in the plan

- 3.8 Establish a risk management process to analyse information and options
 - 3.9 Clarify and agree on skills, roles and responsibilities of team members and stakeholders, and identify reporting requirements
 - 3.10 Address management of test parameters in the plan and design evaluation criteria
- 4 Finalise test plans**
- 4.1 Identify requirements for data management, analysis, tools and storage
 - 4.2 Maintain security and confidentiality of data
 - 4.3 Promulgate and maintain test and evaluation plans and test plan approvals
 - 4.4 Define test safety requirements

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 equivalent to DEFTST001 Plan testing and evaluation processes.

Links

Companion Volume Implementation Guides are found on VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>