



Australian Government

Assessment Requirements for ICTPRG433 Test software developments

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- develop at least one test plan that covers specific test requirements, according to organisational guidelines and industry standard test frameworks.

In the course of the above, the candidate must:

- apply at least three test case design techniques
- design, implement and execute a test procedure and a script using a unit test framework and an integrated development environment (IDE)
- create a test progress report according to recorded test results.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- applicable programming languages that may be used to test software developments
- input and output requirements and basic data structures that may be used to test software developments
- software development life cycle
- design techniques that may be used to test software developments
- processes, tools and techniques for testing small-size applications
- industry standard unit test frameworks
- organisational guidelines and procedures applicable to software development and software development testing frameworks
- defect management processes and documentation techniques that may be used to test software developments
- test-case design techniques.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- a software development environment
- integrated development environment (IDE)
- specific test requirements including test-plan document
- code requiring testing
- software to create test plan and report
- required hardware and its components.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>