



Australian Government

**Assessment Requirements for ICTPRG529
Apply testing techniques for software
development**

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 1.0.

Performance Evidence

Evidence of the ability to:

- develop a test-plan document and test cases, to verify the completeness, reliability and performance of an application, according to requirement specifications
- analyse and prepare the test environment, and execute test cases, by using automated test tools
- document and manage the test result, by performing an application debugging process, and re-testing the application.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- describe the characteristics of the programming language
- explain the input and output requirements
- outline software development life cycle (SDLC) methodologies
- define system layers such as the data network, hardware, operating system, database management systems, web servers, application servers, and client deployment
- explain the processes and techniques related to small-size application development.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the programming and software development industry, and include access to:

- a test environment that closely resembles the production environment

- business, functional, system and user requirements
- a system or application suitable for testing
- the appropriate learning and assessment support, when required

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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