



Australian Government

Assessment Requirements for ICTPRG557 Develop applications using agile methods

Release: 1

Assessment Requirements for ICTPRG557 Develop applications using agile methods

Modification History

Release	Comments
Release 1	This version first released with the Information and Communications Technology Training Package Version 8.0. Supersedes and is equivalent to ICTPRG509 Build using rapid application development. Updated title to better reflect unit scope and current industry processes.

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 two different applications using agile methods.

In the course of the above, the candidate must:

- design applications and develop high quality codes
- provide quality assurance (QA) testing and monitoring during specified timelines
- demonstrate use of code optimisers using agile techniques
- accurately document completed work
- apply required organisational policies and procedures.

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:

- functions, features and components of agile rapid application development (RAD), including:
 - ideation sprints
 - web services
- purpose of QA practices required for agile RAD
- implications of agile methods used to develop applications on organisational considerations, including:
 - product cost

- product quality
- functions and features of industry-accepted prototyping and application design tools, including computer-aided software engineering (CASE) tools
- industry-recognised programming languages used in agile application development, including:
 - JavaScript
 - C++
 - C#
 - Python
- iterative and agile application development methodologies
- organisational formats for documentation
- organisational policies and procedures and legislative requirements relating to work tasks.

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:

- industry-accepted application design tools, code generator and prototyping software and tools
- detailed user requirements, application model and scope details
- opportunities for interaction with others
- work brief and organisational policies and procedures required to demonstrate the performance evidence.

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>