



Australian Government

Assessment Requirements for ICTCLD515 Build and deploy cloud-based applications using CI and CD pipelines

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with the Information and Communications Technology Training Package Version 8.0. Newly created unit of competency to address in-demand skills needs.

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:

- use at least one continuous integration (CI) pipeline to build a cloud-based application
- use at least one continuous delivery (CD) pipeline to deploy the above cloud-based application.

In the course of the above, the candidate must:

- consider procedural improvements to CI and CD pipelines
- report unusual CI and CD activities within required timeframes
- 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:

- key functions and features of CI and CD pipelines, including:
 - integration of building and testing software
 - delivery of packaged software
 - deployment of packaged software into production environments
 - source and artefact repositories
 - manual and automated triggers
 - approval processes
- functions and features of:
 - new branches and branch pipelines
 - source control mains

- build archetypes
- CI and CD platforms, tools, technologies and components required in work brief
- characteristics and common types of application malfunctions
- common methods to identify and rectify application errors
- methods to integrate security tools into CI and CD pipelines
- techniques to detect and respond to build errors in consultation with development teams
- organisational formats for documentation and reports
- 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:

- CI and CD platforms, tools, technologies and components required in work brief
- opportunities for interaction with others
- work brief, software, hardware, 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>