



**Australian Government**

# **Assessment Requirements for ICTTEN825 Investigate applications of cloud networks in network switching**

**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 7.0. |

## 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:

- investigate applications of at least two cloud networks in network switching.

In the course of the above, the candidate must:

- evaluate physical network capacity and functionality shortfalls
- investigate application of cloud networks and plan at least two architectural designs
- develop components of cloud networking solution for meeting capacity and functionality requirements of the network
- assess network risks
- analyse impact of integration of cloud network solution on network
- prepare test plans with test scenario and produce test management schedules
- use integration document and software test management tools to replicate issues exhibited in test environment
- certify cloud network solution compatibility and compliance
- prepare cost-benefit analyses of cloud network solutions
- develop business cases for implementation of cloud networks.

## 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:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- components of infrastructure-as-a-service solutions
- existing digital switching technology in service provider's core network
- information required to develop architectural solutions
- functions and features of:

- test plans, test scenarios and test management schedules
- business cases
- cost-benefit analysis
- return on investment
- cloud network solutions
- integration document software
- new cloud network technologies
- detailed summary of cloud networking transmission, transmitter and receiver architecture and their associated infrastructure
- performance and integration requirements
- technical documentation
- protocols as used on multiprotocol label switching (MPLS) and infrastructure-as-a-service
- detailed explanation of network components and their functions
- specific organisational requirements relating to computer systems
- typical issues and challenges that occur with system changes.

## 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 site where the application of cloud networks in network switching may be investigated
- software tools currently used in industry
- vendor products, specifications, equipment and enterprise policy required for the activity.

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>