



**Australian Government**

# **Assessment Requirements for ICTTEN810**

## **Investigate the application of cloud networks in telecommunications 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 2.0. |

## Performance Evidence

Evidence of ability to:

- evaluate the current physical network infrastructure's capacity and functionality shortfalls
- investigate application of cloud networks and plan architectural design
- develop components of cloud networking solution for meeting capacity and functionality requirements of the network
- assess risks in using cloud networks to meet capacity and functionality requirements of the network
- analyse impact of integration of cloud network solution on network
- prepare a test plan with test scenario and produce a test management schedule
- use integration document and software test management tools to replicate issues exhibited in test environment
- certify cloud network solution compatibility and compliance
- prepare a cost-benefit analysis of the cloud network solution
- develop a business case for implementation of a cloud network.

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:

- analyse components of infrastructure-as-a-service solutions
- summarise existing digital switching technology in service provider's core network
- outline information required to develop architectural solutions
- explain *integration document software*
- explain new cloud network technologies
- provide a detailed summary of cloud networking transmission, transmitter and receiver architecture and their associated infrastructure

- outline performance and integration requirements
- prepare and/or interpret technical documentation
- outline protocols as used on multiprotocol label switching (MPLS) and infrastructure-as-a-service
- provide a detailed explanation of network components and their functions
- explain specific organisational requirements relating to computer systems
- summarise typical issues and challenges that occur with system changes.

## 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 should be typical of those experienced in the telecommunications networks engineering field of work and include access to:

- a site where the application of cloud networks in telecommunications 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 guides are found in VETNet -

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