



Australian Government

Assessment Requirements for ICTNWK610 Design and build integrated VoIP networks

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:

- determine requirements and produce a concepts design of a voice over internet protocol (VoIP) network
- produce a design layout
- configure and test voice gateways
- design site numbering plan, dial plans and priorities
- use networking and network management tools
- configure and test real-time protocols, call management protocols and gateway signalling protocol in the network elements
- implement voice systems and applications.

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:

- explain codecs and their protocols for use
- summarise configuration, verification and troubleshooting procedures to undertake basic router operation and routing switch with VLANs and inter-switching communications
- outline design considerations and deployment schemes
- explain gateway technologies
- summarise internetwork operating system (IOS) and internet protocol (IP) networking models
- outline procedures and techniques for implementing local area network/wide area network (LAN/WAN) topologies
- explain network topologies, architectures and elements
- identify and describe networking standards and protocols

- outline voice applications and protocols
- explain VoIP technologies.

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 networking industry, and include access to:

- a site where network installation may be conducted
- hardware and software
- organisational guidelines
- computers
- stand-alone and lightweight wireless local area network (WLAN) controllers and access point (AP)
- hardware and software local area network LAN/WLAN voice technologies.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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