Assessment Requirements for ICTNWK611 Configure call processing network elements for secure VoIP networks

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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:

- produce design plan and requirements of call processing network elements
- configure and test voice gateways and local area network (LAN) switches
- evaluate voice call manager server requirements and design voice call systems and applications
- implement voice systems and applications on voice call manager
- manage security of voice 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:

- summarise call processing network element technology
- outline codecs and their protocols for use
- explain configuration, verification and troubleshoot procedures to undertake:
  - basic router operation and routing
  - switch with virtual local area network (VLANs) and inter-switching communications
- summarise design considerations and deployment schemes
- explain interoperability of legacy private branch exchange (PBX) to internet protocol (IP) voice communications
- outline internetwork operating system (IOS) and IP networking and network support models
- summarise LAN and wide area network (WAN) implementations
- outline network topologies, architectures and elements
- summarise network, signalling and call management protocols
- outline networking standards and protocols

- summarise security deployment scenarios
- explain voice applications and protocols
- outline voice over internet protocol (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:

- site where network installation may be conducted
- hardware and software
- organisational guidelines
- computers
- stand-alone and lightweight WLAN controllers and access points (AP)
- hardware and software 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