



Australian Government

Assessment Requirements for ICTNWK627 Implement voice applications over secure wireless networks

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. Supersedes and is equivalent to ICTNWK606 Implement voice applications over secure wireless networks.

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:

- implement at least one voice application over a wireless local area network (WLAN)
- conduct at least one quality of service (QoS) practice during the implementation.

In the course of the above, the candidate must:

- assess voice over application architecture and wireless network bandwidth
- 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 configuration and implementation techniques for complex networks, including:
 - virtual local area network (VLAN) with switching and inter-switching communications
 - WLAN
 - voice over wireless local area network (VoWLAN)
- key components of WLAN implementation and verification plans
- functions and features of advanced complex networks, including:
 - mobile device operating systems
 - internet protocol (IP) networking models
 - voice and video applications
 - configuration hardware, software and tools fit for serviceability
- key types of high-bandwidth applications and requirements

- key types and functions of QoS practices, including:
 - deployment schemes
 - wireless multimedia (WMM) extensions
 - design considerations
 - deployment schemes
- functions and features of high bandwidth wireless networks and components, including:
 - standards, protocols and certifications
 - wireless devices and WLAN interconnectivity
 - video application bandwidth
 - latency-sensitive applications
 - multicast concepts
 - lowest common denominator access points
 - voice over application and security needs
 - troubleshooting methodology and solutions
 - network topologies and deployment schemes
 - architecture design plans
- methods to configure network components using technical guidelines
- 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:

- a site where advanced network component configuration and installation is conducted
- voice technologies and network infrastructure, including servers, tools, hardware and software
- stand-alone and lightweight WLAN controllers and access points
- 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>