Assessment Requirements for ICTNWK425 Build small wireless local area 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 6.0.

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:

- install, configure and test at least two wireless access points
- monitor and resolve wireless network issues on at least two wireless local area networks
- develop and document user training material.

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:

- basic principles of network security, including:
  - audit and intrusion detection systems
  - auditing and penetration testing techniques
  - authentication methods
  - network protocols and operating systems
  - security protocols, standards and data encryption
- factors that impact on a small wireless network, including:
  - bandwidth and quality of service
  - factors affecting signal quality
  - layer 2 and layer 3 design issues
  - features of a small office or home office (SOHO) network
  - wireless security strategies
  - wireless topologies
  - wireless local area network (WLAN) solutions
- protocols and their application for wireless networks, including:
  - transmission control protocol (TCP)
  - internet protocol (IP).

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:

- site at which a small wireless network can be installed
- tools to install small wireless network
- network technical requirements
- network infrastructure, including wireless hardware and software
- documentation and guidelines that may affect wireless network installations.

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