



Australian Government

**Assessment Requirements for ICTNWK607
Design and implement wireless network
security**

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:

- conduct research and produce a security solutions plan
- evaluate, design and implement a wireless local area network (WLAN) site security plan
- evaluate end-to-end security solutions and assess their integration with the planned wireless solutions
- use network tools to test wireless controllers and intrusion prevention and detection system (IPDS) solutions.

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 configuration, verification and troubleshooting procedures to undertake:
 - router operation and routing
 - virtual local area network (VLAN) switching and inter-switching communications
- outline iDevice Operating System (iOS) and internet protocol (IP) networking models
- explain intrusion prevention system (IPS) and intrusion detection system (IDS) security protection
- outline threat mitigation strategies
- summarise the following aspects of wireless, including:
 - current regulations, standards and certifications
 - deployment schemes
 - network security technology
 - network topologies, architectures and elements
 - networking protocols

- summarise WLAN with reference to:
 - advanced security platforms
 - devices, their specification and use
 - radio frequency characteristics and their measuring techniques.

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 or prototype where network installation may be conducted
- hardware and software
- organisational guidelines
- live network
- stand-alone and lightweight WLAN controllers and access points (AP)
- hardware and software WLAN site survey tools
- hardware and software IDS and IPS.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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