



**Australian Government**

# **Assessment Requirements for ICTNWK605**

## **Design and configure secure integrated wireless systems**

**Release: 1**

## Assessment Requirements for ICTNWK605 Design and configure secure integrated wireless systems

### 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:

- plan and conduct a wireless local area network (WLAN) site survey
- produce design specifications and layout of wireless network
- configure and test a controller-based WLAN
- test wireless security configurations
- maintain a WLAN.

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 authentication and encryption methods
- summarise configuration, verification and troubleshooting procedures regarding:
  - router-operation
  - routing virtual local area network (VLAN) switching
  - inter-switching communications
- outline configuration of WLAN securities
- clarify current wireless regulations, standards and certifications
- summarise internetwork operating system (IOS) and internet protocol (IP) networking models
- explain radio frequency (RF) and WLAN technology and network design
- outline RF propagation and implementation issues
- explain spread spectrum technologies
- summarise wireless network topologies and elements
- outline wireless networking protocols

- describe WLAN devices, their specification and use
- summarise WLAN radio frequencies 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 where network installation may be conducted
- hardware and software
- organisational guidelines
- computers
- stand-alone and lightweight WLAN controllers and access point (AP)
- hardware and software WLAN site survey tools.

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>