



**Australian Government**

# **ICTNWK405 Build a small wireless local area network**

**Release: 2**

## ICTNWK405 Build a small wireless local area network

### Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

### Application

This unit describes the skills and knowledge required to build and arrange connectivity to a single zone wireless local area network (WLAN).

It applies to individuals with competent information and communications technology (ICT) skills using one wireless access point or wireless router in a small-to-medium enterprise.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

### Unit Sector

Networking

### Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Confirm client and equipment requirements	1.1 Identify, clarify and organise client requirements according to network needs and organisational requirements 1.2 Ensure an appropriate person has given the authority for wireless network access 1.3 Evaluate requirements along with business needs, and translate into technical requirements 1.4 Identify components to be installed in order to meet the technical requirements 1.5 Select position for access point, based on user requirements and environmental conditions 1.6 Arrange for preliminary work to be carried out to meet

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	cabling and power requirements
2. Select, install and configure wireless access point	2.1 Select access point device based on current and future client needs 2.2 Install and configure access point to provide wireless access to network 2.3 Configure services 2.4 Test access point and verify wireless connection and security arrangements 2.5 Select, install and configure appropriate wireless card where necessary for legacy equipment
3. Configure network	3.1 Configure security and other key parameters consistent with commercial and business requirements 3.2 Test security and firewall arrangements with appropriate test equipment 3.3 Test the network with user equipment for general compatibility and access
4. Train users	4.1 Determine devices to be connected to the network 4.2 Demonstrate how pairing and log-on arrangements are established to user 4.3 Inform users of wireless network etiquette and traffic capacity issues 4.4 Develop user documentation
5. Monitor and administer wireless network	5.1 Monitor wireless network performance using diagnostic tools 5.2 Debug networking issues to maintain trouble-free wireless connection 5.3 Document current settings and store securely

## Foundation Skills

*This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.*

<b>Skill</b>	<b>Performance Criteria</b>	<b>Description</b>

Reading	1.1, 1.3, 1.5	<ul style="list-style-type: none"> <li>Recognises and interprets textual information to determine business requirements and all environmental requisites</li> </ul>
Writing	4.4, 5.3	<ul style="list-style-type: none"> <li>Develops material for a specific audience, using clear and detailed language in order to convey explicit information, and keeps a record of relevant setting information</li> </ul>
Oral Communication	1.1, 1.2, 4.2, 4.3	<ul style="list-style-type: none"> <li>Uses listening and questioning skills to clarify job requirements</li> <li>Uses appropriate, detailed and clear language to address key personnel and to disseminate information</li> </ul>
Navigate the world of work	1.1	<ul style="list-style-type: none"> <li>Complies with explicit organisational policies and procedures</li> </ul>
Get the work done	1.1, 1.3-1.6, 2.1-2.5, 3.1-3.3,4.1, 5.1-5.3	<ul style="list-style-type: none"> <li>Determines job priorities, resources and equipment, and works logically and systematically to undertake clearly defined and familiar tasks</li> <li>Understands the purposes, specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks</li> <li>Recognises and responds to predictable routine problems related to role in the immediate work context, including connectivity and security issues</li> </ul>

## Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK405 Build a small wireless local area network	ICANWK405A Build a small wireless local area network	Updated to meet Standards for Training Packages  Reinstated element 5 to performance criteria	Equivalent unit

## Links

Companion Volume implementation guides are found in VETNet -

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