



Australian Government

ICTSAS217 Connect a home based local wireless network

Release: 1

ICTSAS217 Connect a home based local wireless network

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to install, configure and secure network components, such as a wireless router and adapters, to a small home based local wireless network.

It applies to individuals who, while working under a level of supervision, have responsibility in a frontline technical support capacity to connect a wireless router and adapters to a home-based wireless fidelity (Wi-Fi) network to provide wireless connectivity to compatible devices.

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

Unit Sector

Systems administration and support

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. Prepare for installation	1.1 Document client requirements and confirm with required personnel 1.2 Identify documentation and technical support options 1.3 Identify digital devices to be connected to the network and confirm wireless network component requirements 1.4 Determine and confirm vendor warranty and support services 1.5 Identify required work health and safety (WHS) standards for installation process
2. Install and configure wireless router and	2.1 Access digital devices and wireless network components 2.2 Validate contents of delivered components and physical

ELEMENT	PERFORMANCE CRITERIA
adapters	contents match packing list and resolve discrepancies if required 2.3 Determine internet service provider (ISP) connection properties 2.4 Install wireless router according to manufacturer specifications 2.5 Configure wireless router using router configuration properties 2.6 Install wireless adapters according to manufacturer specifications 2.7 Configure Wi-Fi system according to router configuration properties
3. Secure the wireless system and finalise connection	3.1 Set security components of Wi-Fi system 3.2 Test security components and connectivity of Wi-Fi system 3.3 Update documentation regarding security issues and components used 3.4 Store any unused adapters 3.5 Dispose of waste following environmental guidelines

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	Identifies and uses new and upgraded technology skills to enhance learning
Reading	Interprets a range of texts to evaluate and integrate strategies and determine standards have been maintained
Writing	Uses simple vocabulary to record information and prepare required documents in a sequential manner
Oral Communication	Uses listening and questioning techniques to confirm requirements
Teamwork	Identifies and takes steps to follow accepted communication practices and protocols
Planning and organising	- Interprets roles and responsibilities for task and makes basic decisions on work completion parameters in accordance with client requirements and WHS standards - Plans and implements routine tasks aiming to achieve them efficiently

Problem solving	• Makes low-impact decisions within familiar situations, based on a range of predefined and routine solutions and evaluates outcome
Technology	• Utilises basic knowledge of industry hardware and software • Interprets the purpose and operates the specific functions and key features of digital systems and tools to complete routine tasks

Unit Mapping Information

Supersedes and is equivalent to ICTSAS209 Connect and use a home based local wireless network.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTSAS217 Connect a home based local wireless network

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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 secure a wireless router and its adapters, to a small home based local wireless network on at least two separate occasions.

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:

- computer component installation procedures
- industry accepted Wi-Fi network products
- manufacturer specifications that may be used in the process of connecting a home based local wireless network
- router configuration properties
- Wi-Fi installation requirements
- Wi-Fi systems and Wi-Fi security considerations
- ISP connection protocols
- vendor warranty and support services
- environmental guidelines for waste disposal
- WHS standards and procedures that may be used in the process of connecting a home based local wireless network
- wireless network components.

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:

- internet access

- industry standard wireless router and adapters
- digital devices connected to the network
- technical support and documentation.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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