



Australian Government

ICTTEN203 Install and configure a home or small office network

Release: 1

ICTTEN203 Install and configure a home or small office network

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Application

This unit describes the skills and knowledge required for entry level networking support to establish a small office or home office (SOHO) internet connected PC network.

It applies to individuals who may work as an installer or network technician configuring small networks with simple internet protocol (IP) addressing schemes that share a limited range of resources.

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

Unit Sector

Telecommunications – Telecommunications Networks Engineering

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 of home or small office network	1.1 Prepare for given work confirming site-specific work health and safety (WHS) and environmental requirements with appropriate personnel 1.2 Identify safety hazards and implement risk control measures in consultation with appropriate personnel 1.3 Determine nature and scope of the network and network resources from job briefs or appropriate personnel 1.4 Select and obtain personal computer system and network device requirements according to enterprise procedures 1.5 Obtain operating instructions, manuals, hardware and software

ELEMENT	PERFORMANCE CRITERIA
	testing methodologies 1.6 Consult appropriate personnel to ensure task is coordinated effectively with others involved at the worksite
2. Install and troubleshoot home or small office network	2.1 Set up personal computer systems according to manufacturer's specifications and enterprise procedures 2.2 Set up, configure and share network resources between network devices 2.3 Determine network addressing scheme for network connectivity and confirm using calculations 2.4 Troubleshoot network and internet connectivity according to manufacturer's specifications and enterprise procedures 2.5 Identify security threats and initiate control measures according to enterprise procedures
3. Complete and document network installation	3.1 Restore worksite to safe condition according to established safety procedures 3.2 Record and store essential installation information according to enterprise procedures 3.3 Notify appropriate personnel of completion of the task according to enterprise procedures 3.4 Notify appropriate personnel and obtain sign-off

Foundation Skills

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

Skill	Performance Criteria	Description
Writing	3.2, 3.4	Completes workplace documentation accurately using appropriate form and vocabulary for intended audience
Oral Communication	3.3, 3.4	Conveys specific messages efficiently and uses an appropriate tone and vocabulary for intended audience
Numeracy	2.3	Confirms decisions using basic calculations and predictions
Navigate the	1.1-1.4, 2.4, 2.5,	Follows legislative requirements and organisational protocols, policies and procedures relevant to own role

world of work	3.1-3.3	
Interact with others	1.1-1.3, 1.6	• Collaborates and cooperates with others to achieve specific outcomes
Get the work done	1.4, 1.5, 2.1-2.5	• Prioritises and plans work to meet organisational requirements and client expectations • Recognises and anticipates a range of problems, actively looking for early warning signs and implementing contingency plans when appropriate

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN203 Install and configure a home or small office network	ICTTEN2207A Install and configure a home or small office network	Updated to meet Standards for Training Packages.	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICTTEN203 Install and configure a home or small office network

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Performance Evidence

Evidence of ability to:

- implement work health and safety (WHS) workplace procedures and practices
- plan installation of an internet connected network with advice and approvals of relevant personnel
- set up and configure wired and wireless networks with simple addressing schemes
- troubleshoot network and internet connectivity
- set up resource sharing
- deploy simple firewall network security
- obtain sign-off with relevant personnel.

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:

- outline correct usage of tools and equipment
- describe enterprise WHS procedures
- outline basic computer systems and network operating systems
- describe computer networking principles (wired and wireless)
- outline network addressing systems (basic)
- explain network services and associated network models and protocols
- outline network security management
- outline troubleshooting procedures.

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 should be typical of those experienced in the telecommunications network engineering field of work and include access to:

- a site where installation of a small office home office network may be conducted
- tools, equipment and materials currently used in the industry
- relevant workplace procedures, specifications and reference materials.

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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