

ICTTEN416 Install, configure and test an internet protocol network

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 2.0.	

Application

This unit describes the skills and knowledge required to select network elements to meet client business specifications, ensure interoperability within the network, apply network topologies, protocols and security issues, and troubleshoot when required.

It applies to individuals who carry out installation, maintenance and upgrade of information and communications technology (ICT) networks, and are employed by telecommunications or information technology networking provisioning companies.

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	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
1. Prepare to install IP network	1.1 Prepare for given work according to relevant legislation, work health and safety (WHS) regulations, codes and standards	
	1.2 Arrange site access according to required procedure	
	1.3 Review existing network design documentation to ensure it is current and complete	
	1.4 Select components and network elements required to be installed to meet the technical requirements	
	1.5 Contact vendors and service suppliers to obtain specifications	

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ELEMENT	PERFORMANCE CRITERIA		
	and availability of identified components		
	1.6 Develop plans, with prioritised tasks and contingency arrangements, for installation of components with minimum disruption to client		
	1.7 Liaise with appropriate person to obtain approval for the plans, including security clearance and timing		
2. Install and configure IP network	2.1 Install and configure server hardware and software according to organisational and industry standards, following plans		
	2.2 Install and configure computer, other hardware and software, according to organisational and industry standards and plans		
	2.3 Install and configure other software required for the network to operate with security and integrity according to the plan		
3. Test and reconfigure IP network	3.1 Test installed software and hardware, utilising available technical tools, to ensure all components are functioning as expected		
	3.2 Test the network to ensure it is functioning according to specifications		
	3.3 Resolve problems identified in the modified network		
4. Complete documentation and clean	4.1 Complete hardware and asset recording document in line with organisational requirements		
worksite	4.2 Document installation, boot-up and configuration procedures according to organisational requirements		
	4.3 Tabulate test results and complete all user reports		
	4.4 Complete client report and notify of network status		
	4.5 Clean up and restore worksite to client's satisfaction		
	4.6 Secure sign-off from appropriate person		

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
Reading	1.1-1.3, 2.1-2.3, 3.2, 4.1, 4.2	Recognises and interprets technical, legislative and operational documentation to determine job

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			requirements	
Writing	1.5-1.7, 4.1-4.4	•	Uses clear, specific and industry-related terminology to produce and update workplace documentation in predetermined formats	
Oral Communication	1.5, 1.7, 4.4	•	Clearly liaises with internal and external personnel on technical, operational and business related matters Uses listening and questioning skills to confirm understanding for requirements	
Numeracy	3.1-3.3	•	Makes calculations required to take test measurements, interpret results and evaluate performance and interoperability of network	
Navigate the world of work	1.1, 4.5	•	Takes personal responsibility for adherence to legal and regulatory responsibilities relevant to own work context	
		•	Recognises and follows explicit and implicit protocols and meets expectations associated with own role	
Interact with others	4.5, 4.6	•	Cooperates with others as part of familiar routine activities and contributes to specific activities requiring joint responsibility and accountability	
Get the work done	1.2, 1.4, 1.6, 2.1-2.3, 3.1-3.3, 4.5	•	Understands key principles and concepts underpinning design and operation of digital systems and tools, and applies these as required Works logically and systematically to monitor, analyse	
		Ţ	and action job priorities	
		•	Implements actions according to a predetermined plan, making adjustments if necessary	
		•	Makes decisions quickly and intuitively in familiar situations requiring immediate attention, drawing on past experience to identify key variables and determine the best course of action	
		•	Recognises and anticipates an increasing range of familiar problems, their symptoms and causes, depending on differing operational contingencies, risk situations and environments	

Unit Mapping Information

Code and title	Code and title previous	Comments	Equivalence status
current version	version		

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Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN416 Install, configure and test an internet protocol network	ICTTEN4198A Install, configure and test an internet protocol 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

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