



Australian Government

ICTTEN514 Install, configure and test a server

Release: 1

ICTTEN514 Install, configure and test a server

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 undertake work on a server as part of an upgrade to an existing network or during the implementation of a new network.

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

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 to install a server	1.1 Prepare for work in line with site-specific safety requirements and enterprise work health and safety (WHS) processes and procedures 1.2 Notify customer to arrange site access 1.3 Obtain server applications and features from appropriate personnel 1.4 Choose the most suitable server with reference to required server application and server features 1.5 Choose the most suitable network operating system features with reference to required server solution and technical requirements

ELEMENT	PERFORMANCE CRITERIA
	1.6 Provide alternative server solutions with reference to required server application and server features 1.7 Review required installation options 1.8 Analyse data migration requirements 1.9 Apply back-up and recovery requirements with reference to organisational policy 1.10 Analyse education and training requirements for support staff and in line with client requirements and relevant enterprise policies 1.11 Create and document a deployment plan 1.12 Advise user group of deployment and potential down times
2. Install and configure the server	2.1 Back up and restore local data in preparation for installation 2.2 Install and configure the server as required by technical requirements and functional specifications 2.3 Install and undertake configuration activities using relevant operating system and application upgrades 2.4 Reconnect and reconfigure relevant connectivity devices
3. Test server and reconfigure the network	3.1 Run system testing for benchmarking against client specification and requirements according to test plan, and record outcomes 3.2 Analyse the error report and make changes as required 3.3 Test required changes or additions 3.4 Validate changes or additions against specifications
4. Complete documentation and clean worksite	4.1 Make and document server configuration and operational changes 4.2 Tabulate test results and complete all documentation for users 4.3 Complete client report and notify of network status 4.4 Clean up and restore worksite to client's satisfaction 4.5 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	Description
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	Criteria	
Reading	1.8-1.10, 2.2, 3.1, 3.4	Organises, evaluates and critiques information from a range of enterprise policies, technical and instructional material
Writing	1.11, 3.1, 4.1	Prepares clear and concise workplace documentation incorporating technical language to communicate complex information clearly and effectively
Oral Communication	1.2, 1.3, 4.3	- Clearly articulates requirements using language appropriate to audience and environment - Uses active listening, observational and questioning techniques to identify different perspectives and confirm, clarify or revise understanding
Numeracy	3.1-3.3, 4.2	Make test measurements, interpret results and evaluate performance and interoperability of network
Navigate the world of work	1.1, 1.9, 1.10, 4.4	Takes personal responsibility for adherence to legal and regulatory responsibilities and organisational policies and protocols relevant to own work
Interact with others	1.12, 4.2, 4.3, 4.5	- Selects and uses appropriate conventions and protocols when communicating with stakeholders in a range of work contexts - Considers purpose and possible actions to be taken as a result of any work-related communication - Recognises importance of taking audience, purpose and contextual factors into account when making decisions about what to communicate with whom and why
Get the work done	1.1, 1.4-1.6, 1.9, 2.1-2.4, 3.1-3.4, 4.1	- Uses a combination of formal, logical planning processes and an increasingly intuitive understanding of context for complex, high-impact activities with strategic implications - Implements actions according to a predetermined plan, making adjustments if necessary and addressing unexpected issues - Selects and uses digital technologies and systems to achieve work goals and enhance work processes - Uses formal analytical and lateral thinking techniques for identifying issues, generating and evaluating possible solutions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN514 Install, configure and test a server	ICTTEN5201A Install, configure and test a server	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 ICTTEN514 Install, configure and test a server

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Performance Evidence

Evidence of ability to:

- analyse server and network operational issues
- apply user applications and relate to user needs when configuring a server
- create technical and user documentation
- install and configure server
- test server and reconfigure network
- troubleshoot server and network failures.

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:

- describe the Australian Computer Society Code of Ethics
- describe the following aspects of a common network:
 - cable types and connectors
 - topologies
- explain compatibility issues and resolution procedures
- summarise desktop applications and operating systems
- outline documentation requirements for networks
- describe typical enterprise communication and training systems for staff involved in deployment
- outline features of:
 - current network operating systems (NOS)
 - current server applications compatibility issues and resolution procedures
- outline implementation and configuration of servers
- explain system back-up 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 networks engineering field of work and include access to:

- a site where server installation may be conducted
- relevant server specifications
- cabling
- networked local area network (LAN) computers
- server diagnostic software
- switch
- technical requirements for a network
- wide area network (WAN) service point of presence
- workstations
- relevant regulatory documentation impacting installation activities.

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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