



Australian Government

ICTNWK426 Install and configure client-server applications and services

Release: 1

ICTNWK426 Install and configure client-server applications and services

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, maintain and support server-side applications on network workstations, in both Windows and Linux based networks.

It applies to individuals working as network administrators and network support roles who implement the installation and configuration of client-server-based software.

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. Prepare to provide client-server software requirements	1.1 Identify client-server output requirements according to organisational needs 1.2 Plan client-server solution according to organisational requirements 1.3 Determine required hardware to implement client-server solution 1.4 Determine host operating system for client-server software
2. Install, configure, and manage services	2.1 Install client-server software and client hardware according to organisational policies, procedures and guidelines

ELEMENT	PERFORMANCE CRITERIA
	2.2 Configure client-server software according to vendor guidelines 2.3 Manage installation of upgrades and patches to client-server software environment 2.4 Backup client-server software according to technical and organisational requirements
3. Determine configuration effect on network design	3.1 Identify required utilities to monitor and determine network performance capability according to task requirements 3.2 Create network performance benchmarks 3.3 Determine performance effect on network after installation of client-server software
4. Test and finalise client-server activities	4.1 Test operation of client-server software against task requirements 4.2 Store unused ICT equipment according to manufacturer specifications and organisational procedures 4.3 Obtain sign-off from required personnel

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
Numeracy	Interprets numerical information to analyse memory, hard disk and performance requirements
Oral communication	Selects appropriate form, channel and mode of communication for a specific purpose relevant to own role
Reading	Recognises and interprets technical and vendor-specific information to determine business requirements

Unit Mapping Information

Supersedes and is equivalent to ICTNWK407 Install and configure client-server applications and services.

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 ICTNWK426 Install and configure client-server applications and services

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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, monitor and maintain at least one server-based client software to communicate with existing server software.

In the course of the above, the candidate must:

- test operation of client-server software
- identify and implement required updates for client-server software
- monitor performance of client-server software
- backup and maintain client-server software.

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:

- requirements for client-server applications and services, including:
 - computer hardware and software required
 - internet protocol (IP) addressing
 - networking fundamentals
 - operating systems
- operating system help and support utilities required, including:
 - procedures for implementing backup and recovery
 - software installation and configuration
 - user account and password management
 - troubleshooting tools and techniques
 - network diagnostic utilities.

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:

- hardware and software supplies
- server and networking tools
- client-server based network
- appropriate client-server software
- ICT equipment used in industry
- relevant equipment documentation
- work health and safety guidelines
- ICT storage guidelines.

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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