



Australian Government

ICTNWK553 Configure enterprise virtual computing environments

Release: 1

ICTNWK553 Configure enterprise virtual computing environments

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 develop and implement virtualisation technologies, with the goal of providing a more sustainable Information and Communications Technology (ICT) environment.

It applies to individuals working in senior networking roles and are responsible for increasing the sustainability of an organisation through the use of virtualisation technologies.

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 configure virtual environment	1.1 Analyse organisational environment and determine virtual environment requirements 1.2 Determine virtualisation software requirements 1.3 Determine environmental requirements for installing virtualisation software 1.4 Plan and document installation process according to organisational requirements and manufacturing specifications 1.5 Submit plan to required personnel and seek and respond to feedback
2. Install and configure	2.1 Install and configure services and ports according to

ELEMENT	PERFORMANCE CRITERIA
support services	organisational requirements and manufacturing specifications 2.2 Install and configure virtualisation client and server management software according to organisational requirements and manufacturing specifications 2.3 Install and configure environmental requirements and virtual machines according to organisational requirements and manufacturing specifications 2.4 Test functionality of virtual machines and align with organisational and manufacturing requirements
3. Design and configure virtual network	3.1 Plan and document virtual network according to organisational requirements 3.2 Submit plan to required personnel, seek and respond to feedback 3.3 Install and configure required virtual networks according to organisational requirements and manufacturing specifications 3.4 Verify functionality of virtualisation network, according to organisational requirements and manufacturing specifications

Foundation Skills

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

SKILL	DESCRIPTION
Learning	Actively identifies systems, devices and applications with the potential to meet current and future needs
Oral communication	Articulates requirements and responsibilities clearly and distinctively, using industry standard technical language intended for audience and environment
Reading	Interprets technical, manufacturer and organisational documentation, to determine and confirm job requirements
Writing	- Prepares documentation expressing ideas, explores complex issues and constructed logically and succinctly - Writes and edits computer code and technical data, with correct syntax
Teamwork	- Collaborates with others, sharing information to build strong work groups - Elicits feedback and provides feedback to others
Planning and organising	Operates from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation, identifying and addressing any issues

SKILL	DESCRIPTION
Problem solving	• Responds intuitively to problems requiring immediate resolution, recognises anomalies and deviations from normal expectations, in a virtualised machine environment
Self-management	• Takes full responsibility for identifying and considering the required organisational protocols and policies for designing, configuring and managing virtual networks in a virtual environment
Technology	• Identifies and applies complex principles, concepts, language and practices associated with the digital world

Unit Mapping Information

Supersedes and is equivalent to ICTNWK525 Configure an enterprise virtual computing environment.

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 ICTNWK553 Configure enterprise virtual computing environments

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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 test virtual machines on at least 2 occasions.

In the course of the above, the candidate must:

- manage environmental requirements
- document finalised outcomes.

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:

- government and industry policies and guidelines related to development of sustainable Information and Communication Technology (ICT) environments
- industry standard technologies and processes designed to produce required ICT environment
- tools and software applications required to manage virtual machines
- configuration of software applications required to manage virtual machines
- configuration required to integrate virtual machines into the existing network design
- outline structure, function and business organisation of the client.

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:

- a site or prototype where virtual machine environments may be implemented
- the network's technical requirements

- industry required virtualisation software.

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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