



Australian Government

ICTNWK535 Install an enterprise virtual computing environment

Release: 1

ICTNWK535 Install an enterprise virtual computing environment

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to develop and implement, virtualisation technologies to provide a more efficient and reliable information and communications technology (ICT) environment.

It applies to senior networking staff responsible for increasing the sustainability of an enterprise.

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. Analyse client needs	1.1 Assess the client requirements 1.2 Assess the existing client or server systems that may be suitable to be virtualised
2. Analyse the virtualisation host software	2.1 Assess and compare suitable virtualisation host software, according to the enterprise requirements 2.2 Document the recommendations and provide these to the appropriate person
3. Evaluate the system requirements	3.1 Obtain and document the technical specifications, licensing and system requirements from the virtualisation software vendors

ELEMENT	PERFORMANCE CRITERIA
	3.2 Evaluate, and compare, the system requirements needed to implement virtualisation 3.3 Document the recommendations and provide to the appropriate person
4. Plan and install the virtualisation host software	4.1 Plan and prepare, for the host software installation 4.2 Obtain and install the virtualisation host platform 4.3 Test and validate the functionality of the virtualisation host platform, according to the enterprise requirements

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, 2.1, 3.1, 3.2	Critically analyses documentation from a variety of sources and records, and consolidates information, in order to determine requirements
Writing	2.2, 3.1, 3.3	Prepares and produces dynamic material for a specific audience, using clear and detailed language in order to convey explicit information, requirements and recommendations
Oral Communication	1.1, 2.2, 3.1, 3.3	Uses collaborative and inclusive techniques, including active listening and questioning, and the reading of verbal and non-verbal signals to convey and clarify information, and to confirm understanding
Navigate the world of work	2.1, 4.3	- Takes full responsibility for following policies, procedures and legislative requirements, and identifies the organisational implications of new legislation or regulation - Identifies and resolves key business issues, processes, and practices that may have legal implications
Interact with others	1.1, 2.2, 3.1, 3.3	- Elicits feedback and provides feedback to others, in order to improve self or workgroup behaviours - Recognises the diversity in people, and manages this diversity to improve workplace relations and

		practices
Get the work done	1.1, 1.2, 3.2, 4.1, 4.2, 4.3	• Monitors the progress of plans and schedules, and reviews and changes them, to meet new demands and priorities • Makes critical decisions quickly and intuitively in complex situations, taking into consideration a range of variables, including the outcomes of previous decisions • Applies systematic and analytical decision- making processes for complex and non-routine situations • Investigates new and innovative ideas, as a means by which to continuously improve, work practices and processes through consultation, formal and analytical thinking

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK535 Install an enterprise virtual computing environment	ICANWK535A Install an enterprise virtual computing environment	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 ICTNWK535 Install an enterprise virtual computing environment

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Performance Evidence

Evidence of the ability to:

- identify and apply, the suitable tools and software applications required to manage virtual machines
- configure the software applications to manage virtual machines
- integrate the virtual machines into the existing network design
- test and validate the virtualisation.

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:

- determine current government and industry policies, and guidelines, relating to the development of efficient and reliable, information and communications technology (ICT) environments
- analyse the current technologies, and processes, designed to produce an efficient and reliable ICT environment
- research the current recommendations on sustainability options in ICT design
- discuss the benefits of virtualisation
- identify and apply, the processes and procedures for installing and configuring virtualisation software and virtual machines
- identify and apply, the processes and procedures for configuring virtual machines into network design
- determine the structure, functions and business organisation of the client
- identify and apply, the available tools and software applications required to manage virtual machines
- research the configuration of software applications required to manage virtual machines

- research the configuration required to integrate virtual machines into existing network design.

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 must be typical of those experienced in the network industry, and include access to:

- site or prototype, where virtual machine environments may be implemented
- the network's technical requirements
- industry relevant virtualisation software.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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