



Australian Government

ICTSUS808 Plan and manage virtualisation for ICT sustainability

Release: 1

ICTSUS808 Plan and manage virtualisation for ICT sustainability

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 4.0.

Application

This unit describes the skills and knowledge required to analyse, plan and manage virtualisation and managed services for an organisation in order to improve sustainability.

It applies to individuals who have responsibility for conducting or managing information and communications technology (ICT) infrastructure projects such as network managers, ICT infrastructure managers, network planners and designers, consultants or contractors.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Sustainability

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. Develop plan to implement ICT virtualisation	1.1 Critically analyse current organisational operations and priorities to determine processes and objectives that could be supported by virtualisation technologies 1.2 Research and analyse virtualisation scenarios, including undertaking risk assessments and relative comparisons of each to determine predicted return on investment 1.3 Document results of analysis and form recommendations to create plan for implementation, including prioritisation and sequencing of processes to be virtualised based on organisational priorities 1.4 Finalise recommendations and present implement plan for virtualisation to organisational stakeholders and incorporate

	feedback and agree recommendations
2. Manage deployment of virtual machines	2.1 Produce virtualisation management plan to capitalise using virtual machines according to organisational priorities and implementation plan 2.2 Manage procurement of virtual machines necessary to fulfil the virtualisation management plan 2.3 Manage installation and launch of virtual machines according to virtualisation management plan
3. Manage outsourced services and cloud networks	3.1 Critically analyse ICT organisational requirements to produce cloud architecture, using multiple cloud computing elements indicating layers of cloud client stack 3.2 Produce cost–benefit analysis to determine net impact of decisions related to outsourced services according to cloud architecture 3.3 Analyse deployment model options and select according to organisational requirements 3.4 Establish service level agreement (SLA) with managed services provider or network provider to ensure outsourced responsibilities are specified and agreed to

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
Reading	Critically analyses documentation from a variety of sources and records and consolidates information to determine requirements
Writing	Prepares analytical reports, management plans and SLAs, and documents technical requirements and procedures for a diverse range of people in required format
Numeracy	Analyses and confirms capacity and interoperability requirements, calculates cost–benefit analysis
Navigate the world of work	- Works autonomously, making high level decisions to achieve and improve organisational goals - Develops and implements strategies that ensure organisational policies, procedures and regulatory requirements are being met - Monitors and reviews organisational policies, procedures and adherence to legislative requirements to implement and manage change

Get the work done	- Plans strategic priorities and outcomes within a flexible, efficient and effective context, in a diverse environment exposed to competing demands - Gathers and analyses data and seeks feedback to improve plans and processes - Makes high impact decisions in a complex and diverse environment, using input from a range of sources - Explores and incubates new and innovative ideas through unconstrained analysis and critical thinking to develop and improve the organisation's goals - Uses digital technologies to manage organisational operations and actively investigates new technologies for strategic and operational purposes
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSUS808 Plan and manage virtualisation for ICT sustainability	ICTSUS801 Plan and manage virtualisation for ICT sustainability	Edits to elements and performance criteria to clarify intent. Updates to Assessment Requirements.	Equivalent unit

Links

Companion Volume Implementation Guides are available from VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>