



Australian Government

Assessment Requirements for ICTNWK603

Plan, configure and test advanced internetwork routing solutions

Release: 1

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Modification History

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

Performance Evidence

Evidence of the ability to:

- plan, configure and support advanced routed network infrastructure
- use network tools
- plan and analyse redistribution solutions
- produce and configure layer 3 path control implementation plan
- provide solutions to static and dynamic routing issues together with optimisation strategies.

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:

- explain broadband technologies relevant to advanced internetworking routing solutions
- summarise business justifications for having integrated and unified enterprise networks
- outline emerging viable business and social technologies
- clarify external developments or factors that affect network design
- summarise IPv4 and IPv6 technologies and solutions
- outline maintenance and management tools and practices suitable for complex networks to achieve availability and resilience
- summarise network topologies
- explain regulations, standards and certifications relevant to advanced internetworking routing solutions
- explain risk management strategies and practices suitable for a complex network environment
- outline routing tables, protocols and operational processes
- summarise routing technologies for an enterprise environment

- summarise security for enterprise networks
- explain security standards and technologies for network environments
- outline the benefits of formal or structured approaches to network management
- summarise virtual private network (VPN) technologies.

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 networking industry, and include access to:

- a site where network installation may be conducted
- router hardware and software
- organisational guidelines
- computers
- local area network (LAN) and wide area network (WAN) systems.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

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