



Australian Government

Assessment Requirements for ICTNWK612 Plan and manage troubleshooting advanced integrated IP networks

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 and monitor internet protocol (IP) networks for performance and reliability
- evaluate, design and implement a troubleshooting structured plan
- use network testing and monitoring tools
- produce a maintenance plan for monitoring routing protocols and configurations
- implement tests of advanced network solutions.

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:

- summarise advanced network solutions
- explain configuration, verification and troubleshoot procedures to undertake:
 - router operation and routing
 - virtual local area networks (VLANs) switching and inter-switching communications
- outline deployment schemes
- explain iDevice operating system (iOS) and IP networking models
- explain IOS services
- explain IP network topologies, architectures and elements
- identify and describe network testing and monitoring tools
- outline networking standards and protocols
- summarise threat mitigation strategies
- outline VLAN 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 complex network installation may be conducted
- hardware and software
- organisational guidelines
- computers
- local area network (LAN) and wide area network (WAN) systems, including voice and video hardware and software.

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>