



Australian Government

Assessment Requirements for ICTNPL407 Plan the deployment of core network

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 2.0.

Performance Evidence

Evidence of ability to:

- gather data from information sources efficiently and evaluate how the data relates to the core network
- source major equipment and technologies accurately to be used in a core network and detail their compatibilities
- prepare a business case for deployment of a core network
- produce a deployment plan for a core network including monitoring techniques and recommendations for the customer.

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:

- identify multiprotocol label switching (MPLS) and internet protocol (IP) architectures across a core network environment
- outline different protocols such as routing information protocol (RIP), enhanced interior gateway routing protocol (EIGRP), open shortest path first (OSPF), and border gateway protocol (BGP) operations
- identify virtual local area networks (VLAN) and virtual private network (VPN) tunnels and explain how they are implemented in an ethernet and MPLS environment
- outline the following features of core network architectures:
 - client business domain, business function and organisation
 - current industry-accepted hardware and software products
 - networking technologies incorporating substantial depth in some areas
 - transmission technologies and protocols

- theoretical concepts of three or more current industry network development and design methodologies.

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 Telecommunications – Network Planning field of work and include access to:

- network design documentation
- other site-related documentation
- equipment specifications
- live network or training facilities
- organisational guidelines
- networked computers
- networked telecommunications components.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume implementation guides are found in VETNet -

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