



Australian Government

Assessment Requirements for ICTNPL501

Develop planning strategies for core network design

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:

- use data to accurately interpret growth patterns and develop options for core network designs which satisfy customer and enterprise financial goals
- develop a network plan which is current with emerging technologies
- produce specifications and costing
- document a project brief with accompanying project implementation documentation.

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 the capability and limitations of the various core network technologies for present and future needs
- outline the following specific features of core network design:
 - elements and architecture of core networks
 - limits of a core network
 - typical core network technologies
- identify and describe elements and architectures of the various core technologies
- explain key technologies that make up the core network
- outline the following general features of core network design:
 - distribution structure of networks including backbone, core and edge
 - levels of reliability performance standards applicable to specific equipment deployment needs
 - network design including routing and redundancy

- standards and regulations.

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:

- computer aided design (CAD)
- computer networks
- data for network planning
- network equipment deployment plans
- planning models
- relevant standards and regulations.

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>