



Australian Government

Assessment Requirements for ICTNPL502

Develop planning strategies for access 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:

- interpret growth patterns using available data
- develop options for access network design which satisfy customer and enterprise financial goals
- develop a clearly documented network plan, within specifications and including merging technological development and product implementation.

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 capability and limitations of the various access network technologies
- identify current equipment to meet future service obligations
- outline the role of the following specific features of network planning:
 - broadband networks
 - data networks
 - elements and architecture of the various access networks and their technologies
 - facilities and environmental issues
 - limits of a fixed access transmission network
 - media and content
 - regional and metropolitan network
 - typical access network technologies
 - voice networks
 - wireless network

- explain distribution structure of networks, including backbone, access and edge
- identify key technologies that make up the access network
- outline the following general features of network planning:
 - levels of reliability performance standards, applicable to specific equipment deployment needs
 - network design including routing and redundancy
 - standards and regulations
- describe typical problems and challenges with the capability and limitations of the various access networks.

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>