Assessment Requirements for ICTTEN611 Produce an ICT network architecture design

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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:

- adapt technologies to specified technical solutions
- use site design software and hardware
- evaluate client specifications against accepted industry practices
- produce technical designs from business specifications
- analyse feedback from client and make proposal adjustments
- apply design concepts to business solutions
- produce technical reports
- make recommendations and offer optimum design 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 principles of the following technologies:
  - access networks
  - core networks
  - information communications technologies (ICT) network topologies
  - mobile cellular networks
  - network protocols and operating systems
  - optical networks and principles
  - radio frequency (RF) technologies and principles
  - radio frequency identification (RFID) hardware and software
- explain what is meant in the ICT sector by business processes
- explain compatibility issues and resolution procedures

- summarise configuration of internet protocol (IP) networks
- outline desktop applications and operating systems
- summarise security protocols, standards and data encryption.

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 should be typical of those experienced in the telecommunications networks engineering field of work and include access to:

- a site for design work
- client functional requirements
- business specifications
- database software
- simulation software
- organisational guidelines
- a network or computer layout
- site design software and hardware
- information on a range of ICT business solutions.

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