



Australian Government

Assessment Requirements for ICTTEN622 Produce ICT network architecture designs

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 7.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- produce at least two information communications technology (ICT) network architecture designs.

In the course of the above, the candidate must:

- 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 adjust proposal
- apply design concepts to business solutions
- produce technical reports
- make recommendations and offer optimum design solutions.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- 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
- ICT industry business processes, including software solutions and supplier costing
- compatibility issues and resolution procedures
- configuration of internet protocol (IP) networks
- desktop applications and operating systems
- security protocols, standards and data encryption
- network design documentation.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes 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 Guide is found on VETNet -

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