



Australian Government

Assessment Requirements for ICTTEN425 Design, install and configure a customer smart technology 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:

- determine job requirements by referring to documentation and through discussion with appropriate people
- design a smart technology network that uses advanced networking techniques
- install a smart technology network according to design specification
- configure network devices to meet design functionality
- document smart technology network design, installation and configuration.

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:

- outline enterprise work health and safety (WHS) procedures
- summarise network design concepts including:
 - business requirements
 - network topologies
 - physical and financial constraints
 - security
 - wired or wireless options
- explain network requirements:
 - applications
 - lifecycle
 - manageability
 - quality of service
- summarise open systems interconnect (OSI) layered communication model

- summarise the following areas of troubleshooting including:
 - impact of network failure
 - maintenance troubleshooting
 - different problem-solving 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 should be typical of those experienced in the telecommunications networks engineering field of work and include access to:

- a site where design and installation of a smart technology network may be conducted
- tools, equipment and materials currently used in industry
- relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.

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>