



Australian Government

Assessment Requirements for ICTTEN420 Design, install and configure an internetwork

Release: 1

Assessment Requirements for ICTTEN420 Design, install and configure an internetwork

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 customer requirements
- design internetwork that uses advanced routing and addressing techniques
- install internetwork according to design specification
- configure network devices to meet design functionality
- document internetwork 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:

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

- outline troubleshooting components of this work including:
 - impact of network failure
 - maintenance
 - troubleshooting methodologies
- analyse impact of applications on traffic flow in the network
- describe network design methodologies used to design networks providing a range of services and applications found in larger networks
- define technical requirements, constraints and manageability issues for a given customer network
- identify and describe common tools and equipment used in internet work.

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 an internetwork 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>