



Australian Government

# **Assessment Requirements for ICTTEN610 Design and configure an IP-MPLS network with virtual private network tunnelling**

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:

- plan and design a multiprotocol label switching (MPLS) network that meets business requirements
- configure and test the MPLS network according to specified guidelines
- produce design topology of a MPLS network
- produce a final design plan including network elements, configuration details and recommendations for design changes
- implement secure virtual private network (VPN) tunnelling.

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:

- explore current industry-accepted hardware and software products used in an IP-MPLS network
- explain MPLS IP-VPN network operating systems including:
  - transmission technologies
  - protocols
- describe the effect of the customer's business domain, function and organisation on customer requirements and network equipment.

## 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 of work and include access to:

- a live network and networked computers
- network design documentation, equipment specifications and organisational guidelines
- network components, routers, switches and multi-layer switches.

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>