



Australian Government

Assessment Requirements for ICTTEN621 Design and configure IP-MPLS networks 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 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:

- plan and design at least two multiprotocol label switching (MPLS) networks that meet business requirements.

In the course of the above, the candidate must:

- configure and test the MPLS network according to specified guidelines
- produce design topology of a MPLS network
- produce design plans, including network elements, configuration details and recommendations for design changes
- implement secure virtual private network (VPN) tunnelling.

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
- industry-accepted hardware and software products used in IP-MPLS networks
- functions and features of MPLS IP-VPN network operating systems including:
 - transmission technologies
 - protocols
 - principles and techniques of constructing design plans
- effects of the customer's business domain, function and organisation on customer requirements and network equipment.

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 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 Guide is found on VETNet -

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