



Australian Government

Assessment Requirements for ICTTEN421

Apply advanced routing protocols to network design

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 network routing requirements to meet design specification
- configure advanced protocols on network routers
- manage network addressing
- troubleshoot network
- install network security.

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:

- explain distance vector routing protocols RIP v1 and v2
- outline dynamic routing
- summarise enterprise work health and safety (WHS) procedures
- outline hybrid routing protocols enhanced interior gateway routing protocol (EIGRP)
- explain link-state routing protocols open shortest path first (OSPF)
- explain routing and packet forwarding
- describe routing tables
- summarise scalable routing strategies variable length subnet masking (VSLM) and classless inter-domain routing (CIDR)
- outline security protocols using access lists
- clarify static routing
- explain the use of software tools and 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 field of work and include access to:

- a network facility and workstations
- 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>