



**Australian Government**

# **Assessment Requirements for UEECS0006 Design and implement multi-layer switching for internetworking systems**

**Release: 1**

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## **Modification History**

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

## **Performance Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including the use of risk control measures
- arranging work team/group of relevant persons
- dealing with unplanned events
- designing internetworking systems with economical design solutions
- detailing multi-layer switching technologies and specification for internetworking media in the design
- developing a design brief for multi-layer switching technologies in an internetworking system
- documenting and presenting design for approval
- documenting internetworking installation and configuration activities
- identifying and rectifying system malfunctions and performance issues
- implementing strategies to ensure network development
- implementing internetworking system design
- implementing internetworking systems, including advanced wireless local area network (LAN) technologies in internetworking system design
- monitoring quality of work
- negotiating alterations to internetworking system design
- planning work activities, including requirements for work team/group
- preparing to design internetworking systems
- preparing to design internetworking systems
- presenting and discussing internetworking system design with relevant person/s
- acquiring media for internetworking system design specification
- selecting relevant development tools and software.

## **Knowledge Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of

the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- campus network design
- controlling access to the campus network
- fast layer 2 services
- inter virtual local area networks (VLAN) routing
- managing network traffic
- managing redundant links
- multi-cast
- problem-solving techniques
- relevant development tools and software
- relevant industry standards
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace budgets, instructions, quality, policies and procedures
- relevant workplace documentation.

## Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to designing and implementing multi-layer switching internetworking systems
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

## Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>

