# Assessment Requirements for UEECS0023 Install and configure network systems for internetworking

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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:

- analysing issues/problems
- applying internetworking arrangements, subnetting and routing protocols
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
  - using risk control measures
- engaging with relevant person/s to meet scheduled timelines
- determining internetworking installation and configuration activities
- documenting internetworking installation and configuration activities
- identifying and rectifying routing, transmission control protocol (TCP)/internet protocol (IP) and access malfunctions
- implementing strategies for network development
- installing and configuring routing and TCP/IP
- monitoring quality of work in accordance with workplace procedures and relevant industry standards
- obtaining and reviewing network cabling
- preparing to install and configure internetworking systems
- selecting development tools and software
- selecting internetworking media 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:

- router security
- router boot sequence
- router operating system management
- password recovery

- router components and interfaces
- troubleshooting at all layers
- interior and exterior routing protocols
- distance vector routing protocols
- link-state routing protocols
- routing tables
- metrics used by routing protocols to find routes
- advantages and disadvantages of distance vector and link-state routing protocols
- problem-solving techniques
- relevant development tools and software
- relevant industry standards
- relevant internetworking arrangements, sub-netting and routing protocols
- relevant internetworking performance specifications
- relevant manufacturer specifications and installation instructions
- relevant route summarisation
- relevant router configuration
- relevant routing protocols
- relevant routing, TCP/IP and access malfunctions
- relevant job safety assessments or risk mitigation processes
- relevant TCP/IP
- relevant WHS/OHS legislated requirements
- relevant workplace documentation, including:
    - network service records
- relevant workplace instructions, quality, policies and procedures.

## 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 installing and configuring networking

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