



Australian Government

Assessment Requirements for UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling

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 (OHS) requirements, including applying risk control measures
- obtaining correct materials, tools and equipment to undertake the work
- checking tools, equipment and testing devices for correct operation and safety
- installing, terminating and testing unshielded twisted pair (UTP), FTP or shielded twisted pair (STP) customer cables that are rated Category 5 or above
- installing, terminating and testing coaxial cable installation systems
- installing and modifying performance data communication copper cabling, including:
 - reading and interpreting drawings and diagrams related to cable layouts, schedules and apparatus locations
 - routing, placing and securing cables to comply with industry standards
 - preparing and terminating each type of cable to comply with industry standards
 - ensuring copper cables are installed or modified with sufficient excess to affect terminations
 - maintaining twist ratio of generic, structured twisted pair copper cables
 - earthing cable shields
 - fitting surge suppression devices
 - conducting cable performance tests
- completing necessary documentation.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- telecommunication cable types, including:
 - construction
 - transmission characteristics

- applications
- cable identification, including:
 - plans and drawing
 - labelling
 - documentation
- cable installation, including:
 - hazards
 - cable damage prevention
 - cable dispensers
- distributors and distributor enclosures, including:
 - types
 - regulations
 - termination interfaces
- termination methods and requirements
- category 5 and above generic, structured cabling, including:
 - design principles
 - functional elements
 - cabling sub-systems
- uses and construction of category UTP, FTP and STP generic and coaxial structured cabling installation systems
- performance requirements for structured cabling, including:
 - approved practices
 - safety requirements
 - connectors
 - terminating tools
 - continuity tests
 - fault diagnosis
 - recording results
- testing and commissioning structured cabling systems
- constraints of building structure, fire walls and cultural/heritage requirements
- techniques to identify and rectify faults/defects.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated 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 other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- 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>