



Australian Government

Assessment Requirements for UEEDV0003 Install and connect cabling for direct access to telecommunications service

Release: 1

Assessment Requirements for UEEDV0003 Install and connect cabling for direct access to telecommunications service

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 one occasion and include:

- terminating at both network termination device and at least two different outlet types and locations
- placing of cables on support structures and building faces for both internal and external locations
- securing cables correctly for above locations
- avoiding cable damage such as crushing, burning, kinking, sheath twist, cutting and nicking, and bending radius
- reading and interpreting drawings related to outlet and service entry location
- conducting and interpreting cable test results
- correctly interpreting and applying standards and regulations
- completing the required documentation
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including using risk control methods
- completing cabling work records and reporting
- inspecting and testing cables and earth wires
- installing support structure against damage during installation and general operation
- installing cable without waste of materials, energy, services, damage to apparatus and the surrounding environment
- labelling telecommunication outlet ends of cable
- laying and connecting cabling for direct access to telecommunication services
- obtaining and checking tools, equipment and testing devices
- preparing cabling for direct access to telecommunication services
- terminating cables and earth wires
- terminating telecommunications reference conductor (TRC)/communications earth system (CES)/earth wires.

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:

- telecommunications restricted cabling provider rules (CPR) regulations and installations, safe working practices and relevant standards, codes and regulations, including:
 - telecommunication industry overview encompassing:
 - telecommunication industry
 - overview of telecommunications network
 - overview of Telecommunications Act 1997
 - role of Australian Communications Media Authority (ACMA) and ACIF
 - telecommunications terminology
 - telecommunication technical standards encompassing:
 - ACMA Technical Standards TS008 and TS009
 - SAA Communications Cabling Manual (restricted) (starter kit) as approved by relevant bodies – Standards Australia/ACIF
 - international standards – ISO, IEC and ITU
 - Building Code of Australia (BCA)
 - AS/NZS 3000
 - National Association of Testing Authorities (NATA)
 - CPR encompassing:
 - ACMA
 - telecommunications CPR
 - CPR registration
 - old telecommunication licensing structures
 - inspection of work
 - documentation – TCA1 form
 - cable type and identification encompassing:
 - cable types – unshielded twisted pair, shielded twisted pair, indoor, underground and aerial
 - cable construction
 - cable identification – codes (colour, banded, numbered and lettered)
 - cable installation encompassing:
 - cable damage
 - cable packaging
 - cable dispensing devices
 - cable insertion and hauling
 - lead-in conduit requirements (including wall box installation)
 - wiring diagrams

- segregation of cables
- aerial cable fittings and additional safety aspects required
- termination of telecommunication cables encompassing:
 - sheath stripping – methods and precautions
 - pair identification
 - end-to-end testing
 - filled cable termination
 - termination systems – telephone outlets and sockets, and network terminating devices (NTD)
 - connector jointing e.g. external to internal cable where required
- telecommunication earthing and protection encompassing:
 - customer lightning protection (CLP)
 - CLP earthing
 - carrier's policy requirement covering materials (including surge suppression devices) and
 - practices (including earth bonding arrangements)
- basic telephony encompassing:
 - basic telephone service
 - telephone
 - exchange number
 - connection equipment/lead-in cable
 - dialling signals – pulse dialling, tone dialling and ring equivalence number (REN)
- problem-solving techniques
- relevant earthing requirements
- relevant industry standards
- relevant manufacturer specifications and operating instruction
- relevant job safety assessments or risk mitigation processes
- relevant tools, equipment and testing devices
- relevant TRC/CES/earth wires
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace 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 relation to laying and connecting cabling for direct access to telecommunication services
- 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>