



Australian Government

Assessment Requirements for UEEDV0007 Install underground communication cables

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 and performance criteria on at least one occasion and include:

- reading and interpreting drawings related to cable schedules and routes
- installing ducts/conduits below ground correctly
- drawing in cables without strain or damage
- protecting cable ends
- completing the necessary documentation accurately
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including using risk control measures
- carrying out cable installation efficiently without waste of materials or damage to apparatus, circuits or the surrounding environment using sustainable energy practices
- checking trenching in accordance with job specifications and relevant industry standards
- documenting and verifying installation of underground communication cables
- installing underground communication cables
- obtaining material required for installation work
- obtaining tools, equipment and testing devices required for the installation work and checking for correct operation and safety
- preparing to install underground communication cables.

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 underground cabling requirements and techniques, safe working practices and relevant standards, codes and regulations, including:
 - hazards and control measures in underground cabling working environment:
 - risk management and assessment of risk:
 - principle and purpose of risk management
 - processes for conducting a risk assessment

- hazards associated with low voltage (LV), extra-low voltage (ELV) and high currents:
 - parts of an electronic systems and equipment that operate at LV and ELV
 - parts of an electronic systems and equipment where high currents are likely
- risks and control measures associated with high voltage (HV):
 - parts of an electronic systems and equipment that operate at HV
 - the terms ‘touch voltage’, ‘step voltage’, ‘induced voltage’ and ‘creepage’ as they relate to the hazards of HV
 - control measures used for dealing with the hazards of HV
- risks and control measures associated with LV:
 - risks associated with installation, fault finding, maintenance and repair
 - control measures before, while and after working on electronic systems or equipment
 - isolation and tagging-off procedures
 - risks and restrictions in working live
 - control measures for working live
- risks and control measures associated with trenches:
 - identification of trenching conditions
 - notification of relevant authorities/utilities and permits
 - digging and trenching equipment safety
 - methods of shoring
 - public safety
 - personal safety equipment
- telecommunication below ground cabling:
 - types and purposes of mechanical and manual aids
 - purpose, location, and capacity of manholes and pits
 - types of underground cable
 - procedure for the excavation of a site for the installation of a manhole, pit, pipe and conduit
- problem-solving techniques
- relevant manufacturer specifications and operating instructions
- relevant tools, equipment and testing devices
- relevant workplace documentation
- relevant workplace quality, policies and procedures
- sustainable energy practices.

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 installing underground communication cables
- 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>