



Australian Government

Assessment Requirements for UETDRDU009 Install, test and verify distribution underground cable installations

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 2.0.

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:

- applying relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - work health and safety (WHS)/occupational health and safety (OHS)
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- interpreting and using drawings, diagrams and instructions
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- completing at least one (1) of the following low voltage (LV) joints:
 - tee-off
 - straight
 - breech
- completing at least one (1) of the following high voltage (HV) joints:
 - tee-off
 - straight
 - breech
- completing at least one (1) of the following LV terminations:
 - pole top
 - transformer
 - LV switchboard
 - pillar/turret
 - lighting column
- completing at least one (1) of the following HV terminations:
 - pole top
 - transformer
 - switchgear
- completing at least two (2) of the following cable tests:
 - voltage
 - continuity

- insulation resistance
- phase identification
- installing electrical equipment, including:
 - testing electrical equipment
 - testing earthing systems
- connecting a LV service cable
- testing consumer/customer connections, including at least five (5) of the following:
 - neutral integrity*
 - polarity*
 - voltage
 - current
 - phase rotation
 - insulation resistance
 - neutral identification
 - loop impedance
 - earth resistance
 - (*must do)
- verifying cable installations, including:
 - complying with the work plan
 - identifying and rectifying non-compliance issues
- using testing equipment in accordance with workplace requirements
- recording test results in accordance with workplace requirements
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- dealing with an unplanned event on at least one (1) occasion
- completing relevant work records, reports and 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:

- relevant legislation, regulations, standards, codes of practice and organisational workplace requirements including:
 - WHS/OHS
 - live LV connection principles
- hazard, risk assessment and risk control requirements, including potential hazards
- types and application of PPE
- safe use of plant, tools and equipment
- application, purpose and types of permits
- construction manuals, system diagrams/plans and drawings
- HV and LV cable installation, including:

- cable jointing and terminating procedures
- testing procedures
- electrical equipment installation, including:
 - construction and connection procedures
 - testing procedures
- LV service installation, including:
 - connection procedures
 - testing procedures
- cable installation verification 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 workplace operational situations, where it is appropriate to do so.

Where this is not appropriate, assessment must occur in simulated conditions involving realistic and authentic activities that replicate operational 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:

- relevant and appropriate materials, tools, facilities, equipment and PPE currently used in industry for installing, testing and verifying underground cable installations
- applicable documentation, including workplace requirements, relevant industry standards, 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=229bace1-b7bc-4653-9300-dffb13ecfad7>