



Australian Government

Assessment Requirements for UETDRDU010 Joint, terminate and maintain energised low voltage underground paper insulated cable

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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 two separate occasions 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)
 - protecting existing underground services
 - handling underground power cables
 - using liquefied petroleum gas (LPG)
 - applying shoring requirements
 - applying low voltage (LV) energised work principles
- identifying hazards, assessing risks, identifying, applying and monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- interpreting and using drawings, diagrams and instructions
- completing at least one (1) of the following cable joints:
 - tee-off
 - straight
 - breech
- completing at least one (1) of the following cable terminations:
 - LV switchboard
 - pillar/turret
 - lighting column
- using at least two (2) of the following cable jointing/terminating products:
 - resin
 - heat shrink
 - cold applied
- completing at least one (1) of the following earth bond methods:

- lead wiping
- mechanical
- using at least two (2) of the following cable conductor connection methods:
 - mechanical connector
 - compression lug
 - insulating piercing connector
- completing at least one (1) of the following cable maintenance tasks:
 - outer sheath repair
 - insulation repair
- completing at least two (2) of the following cable tests:
 - moisture content*
 - voltage
 - insulation resistance
 - phase identification
 - phase rotation
 - *(must do)
- 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
 - LV energised work principles and procedures
 - specialised equipment for LV energised work
 - working in confined spaces
 - excavation and trench safety
 - LPG equipment and testing
 - safe approach distances
 - manual handling
- 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
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- cable alignment and identification

- work plan requirements, including:
 - types of and layout of drawings
 - manufacturer's instructions
 - testing plan
 - quality checklist
 - workplace documentation procedures
- LV paper insulated cable, including:
 - types and sizes
 - construction, characteristics and properties
 - minimum bending radius
- cable jointing, terminating and maintenance requirements:
 - cable handling techniques
 - energised jointing, terminating and maintenance principles, techniques and procedures
 - earth bonding methods and procedures
 - types of cable damage/defects
 - cable repair techniques and procedures
 - testing 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 for jointing, terminating and maintaining energised LV underground paper insulated cable
- applicable documentation, including workplace requirements, relevant industry standards, equipment specifications, regulations, codes of practice and manufacturer's instructions.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>