



Australian Government

Assessment Requirements for UETDRDU013 Joint, terminate and maintain high voltage underground polymeric 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
- 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 through
 - breech
- using at least one (1) of the following cable jointing/terminating products:
 - taped resin
 - heat shrink
 - cold applied
- completing at least two (2) of the following cable terminations:
 - pole top
 - transformer
 - switchgear
- using the following cable connection methods:
 - mechanical connector
 - compression lug

- completing at least one (1) of the following cable maintenance tasks:
 - repair outer sheath
 - replace termination lug
- completing at least one (1) of the following to determine cable electrical status:
 - spiking
 - guillotine/remote cutting
- completing at least two (2) of the following cable tests:
 - voltage
 - continuity
 - insulation resistance
 - phase identification
- 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:

- legislation, regulations, standards, codes of practice and organisational workplace requirements, including:
 - WHS/OHS
 - safe approach distances
 - working in confined spaces
 - excavation and trench safety
 - LPG equipment and testing
 - cable spiking, guillotine/remote cutting
 - manual handling
- hazard, risk assessment and risk control requirements, including potential hazards
- types and application of PPE
- safe use of tools and equipment
- application, purpose and types of permits
- events that constitute an incident or unplanned event
- 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

- high voltage (HV) polymeric cables, including:
 - types and sizes
 - construction, characteristics and properties
 - electrical stress control
 - minimum bending radius
- cable jointing, terminating and maintenance requirements, including:
 - cable handling techniques
 - jointing principles, techniques and procedures
 - cable repair techniques and procedures
 - types of cable damage/defects
 - use of test equipment
 - 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 HV underground polymeric 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>