



Australian Government

**Assessment Requirements for
UETTDRCJ26 Install and maintain
de-energised low voltage underground
polymeric cables**

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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.

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 work health and safety (WHS)/occupational health and safety (OHS) requirements including the use of risk control measures
- applying sustainable energy principles and practices
- installing and maintaining the following:
 - low voltage (LV) polymeric cable
- completing at least two (2) of the following:
 - tee-off joints
 - straight through joints
 - parallel branch joints
 - parallel joints
- installing at least one (1) of the following:
 - transformers
 - LV switchboards
 - pillars/turrets
 - lighting columns
 - ring main units
 - chamber substations
- using terminating substation equipment on at least two (2) of the following:
 - busbar/termination boxes
 - links/fuses
 - disconnect boxes
 - termination boxes
 - control gear
 - underground/overhead terminations
 - circuit breakers
- using at least one (1) of the following terminating materials:

- resin filled boxes
- compound filled boxes
- polymeric tape
- heat shrink
- 'slip-on' moulds
- pre-stretched polymeric
- use at least one (1) of the following cable conductor connection methods:
 - compression lugs
 - welded connections
 - mechanical connectors
 - insulation piercing connectors
- using all of the following:
 - insulation resistance testers
 - voltage detectors
- dealing with unplanned events on at least one (1) occasion.

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:

- standards, codes, legislation, supply authority regulations and/or enterprise requirements pertaining to the jointing of LV polymeric cables
- types of jointing tools
- techniques in the use of liquid petroleum gas (LPG) encompassing:
 - safety precautions
 - personal protective equipment (PPE)
 - general maintenance and repair
- techniques in jointing LV cross-linked polyethylene (XLPE) cables encompassing:
 - straight through joint
 - jointing different types of cable
 - service and street light cable joints
- techniques in terminating LV XLPE encompassing:
 - pole top terminations
 - substation terminations
 - distribution pillar/column/cubicle terminations
 - service and street light cable terminations
- techniques in repairing LV XLPE cable encompassing:
 - different types of damage
 - repairs to sheath
 - repairs to cores

- methods of testing cable after jointing.

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:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, facilities, equipment and PPE currently used in industry for installing and maintaining de-energised LV underground polymeric cables
- applicable documentation, including workplace procedures, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

UET Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>