



Australian Government

**Assessment Requirements for
UETTDRCJ22 Install and maintain
de-energised low voltage underground
paper insulated 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 at least one (1) of the following:
 - low voltage (LV) paper/lead sheathed
 - LV paper/aluminium sheathed
- completing at least two (2) of the following cable joints:
 - tee-off joints
 - straight through joints
 - parallel branch joints
 - parallel joints
- completing at least two (2) of the following cable terminations:
 - transformers
 - LV switchboards
 - pillars/turrets
 - lighting columns
 - ring main units
 - chamber substations
 - underground overhead terminations
 - circuit breakers
- using at least one (1) of the following:
 - busbar/termination boxes
 - links/fuses
 - disconnect boxes
 - termination boxes
 - control gear

- using at least one (1) of the following:
 - resin filled boxes
 - polymeric tape
 - heat shrink
 - 'slip-on' moulds
 - pre-stretched polymeric
 - compound filled boxes
- using at least one (1) of the following cable conductor connection methods:
 - compression lugs
 - soldered lugs
 - mechanical connectors
- using at least one (1) of the following:
 - voltage detectors
 - insulation resistance testers
- 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:

- safety precautions specific to handling and jointing underground aluminium and lead cable, including provision of WHS/OHS information, such as material safety data sheets (MSDS)
- requirements for the use of enterprise manuals, system diagrams/plans and drawings
- construction and structure(s) of aluminium and lead cable underground cables
- characteristics of aluminium and lead cable
- ratings
- techniques in the jointing of aluminium and lead sheathed cable
- 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 personal protective equipment (PPE) currently used in industry for installing and maintaining de-energised LV underground paper insulated 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>