



Australian Government

**Assessment Requirements for
UETTDRCJ23 Install and maintain
de-energised high 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
- using at least one (1) of the following:
 - paper/lead sheathed
 - high voltage (HV) paper/aluminium sheathed
- using at least one (1) of the following:
 - straight through joint
 - parallel branch joint
- completing at least one (1) of the following:
 - transformers
 - ring main units
 - chamber substations
- installing at least one (1) of the following:
 - busbar/termination boxes
 - links/fuses
 - termination boxes
 - control gear
- installing at least two (2) of the following:
 - resin filled boxes
 - polymeric tape
 - heat shrink
 - 'slip-on' moulds
 - pre-stretched polymeric
 - compound filled boxes
- completing at least two (2) of the following:

- lugs and ferrules
- compression joints
- soldered joints
- mechanical connectors
- using all of the following:
 - cable identification devices
 - cable spiking devices
- using all of the following:
 - insulation resistance testers
 - moisture testing equipment
- 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:

- requirements for the use of enterprise manuals, system diagrams/plans and drawings
- types of tools and equipment
- types of HV cables
- structure of HV cables
- techniques for the jointing, terminating and repairing of HV paper insulated cables
- methods of testing cables 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 HV 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>