



Australian Government

Assessment Requirements for UETTDRCJ99 Test and verify distribution cable jointing installations

Release: 1

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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
- testing and verifying all of the following:
 - low voltage (LV) polymeric cables
 - high voltage (HV) polymeric cables
- using at least two (2) of the following:
 - tee-off joints
 - straight through joints
 - parallel branch joints
 - parallel joints
 - trifurcating joint
- using at least two (2) of the following:
 - pillars (single phase)
 - pillars (three phase)
 - lighting pillar standards
 - LV switchboards
 - substations
 - underground/overhead terminations
- using at least one (1) of the following:
 - transformers
 - switchgear
 - ring main units
- using at least one (1) of the following cable sealing methods:
 - resin filled boxes
 - compound filled boxes

- polymeric tape
- heat shrink
- 'slip-on' moulds
- using at least one (1) of the following cable conductor connection methods:
 - compression lugs
 - mechanical connectors
 - insulation piercing connectors
 - lugs
- performing at least four (4) of the following cable tests:
 - polarity test*
 - phase rotation test
 - continuity test
 - voltage test
 - insulation resistance test
 - (*must do)
- using all of the following:
 - cable ID devices
 - cable spiking devices.

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:

- legislated regulations encompassing:
 - legislation and regulations that require distribution cable jointing installations and equipment to be tested to ensure they are safe
 - the person/bodies responsible for the various aspects of ensuring distribution cable jointing installations are safe
 - results of tests that show a distribution cable jointing installation is safe for connection to the supply
 - results of periodic inspection and tests that show wiring and equipment is safe to use
 - results of periodic inspection and tests that show the distribution cable jointing installations electrical equipment is safe to use
- testing installations encompassing:
 - distribution cable jointing system phasing, phase rotation and polarity is correct and conforms to network construction standards
 - installation resistance is adequate
 - cable identification
- documentation encompassing:
 - results of tests conducted on a distribution cable jointing installation in accordance with work package requirements and to ensure the distribution cable jointing installation is

safe

- documents of periodic inspection and testing of distribution cable jointing installation and equipment in accordance with requirements
- techniques in the installation and maintenance of network infrastructure
- techniques in jointing, terminating and maintenance encompassing:
 - HV polymeric cables
 - LV polymeric cables
 - underground services.

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 testing and verifying distribution cable jointing installations
- 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>