



Australian Government

Assessment Requirements for UETTD RTP99 Test and verify transmission overhead 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
- using at least two (2) of the following methods:
 - visual*
 - infra-red camera
 - X-ray
 - camera
 - binoculars/telescope
 - (* must do)
- inspecting structures including at least one (1) of the following:
 - pyramid
 - delta pi
 - enterprise specific type
- installing associated hardware including at least three (3) of the following:
 - insulators
 - clamps
 - bolts
 - conductor spacers
 - vibration dampers
 - structural components
- inspecting conductors including at least one (1) of the following:
 - copper
 - aluminium
 - steel
 - aluminium/steel reinforced

- undertaking work activities from at least two of the following:
 - elevated work platform (EWP)
 - portable platform
 - gondola
 - hook ladder*
 - elevated work box (EWB)
 - (*must do)
- using specialised equipment including all of the following:
 - voltage/de-energised indicating device
 - earthing conductors
- complying with all of the following:
 - reporting procedures
 - reporting outcomes

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, including:
 - legislation and regulations that require installations and equipment to be inspected and tested to ensure they are safe
 - the person/bodies responsible for the various aspects of ensuring transmission overhead installations are safe
 - results of inspections and tests that show transmission overhead installation is safe for connection to the supply
 - results of periodic inspection and tests that show construction and installation of equipment is safe to use
 - results of periodic inspection and tests that show the transmission overhead installations electrical equipment are safe to use
- testing installations, including:
 - transmission system phasing is correct and conforms to network construction standards
 - electrical transmission network voltage levels comply with network supply standards
 - potential present upon transmission network neutral conductors conforms network supply standards
 - insulation resistance is adequate
 - transmission earthing system components are verified as correctly installed
- documentation, including:
 - results of inspections and tests conducted on a transmission overhead installation are in accordance with work requirements and ensure the transmission overhead installation is safe
 - documents of periodic inspection and testing of transmission overhead installation and

equipment in accordance with requirements

- non-compliances and defects reported in accordance with established 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:

- 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 transmission overhead installations
- network constructions and network supply standards
- 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>