



Australian Government

Assessment Requirements for UETTD RIS99 Test and verify distribution remote area 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
- inspecting overhead distribution poles and structures
- using testing/measuring devices, including at least three (3) of the following:
 - voltage detector*
 - clamp-on ammeter
 - multimeter
 - polarity tester
 - insulation resistance tester
 - phase sequence indicator*
 - earth resistance tester
 - recording meters
 - (*must do)
- completing distribution tests, including at least three (3) of the following:
 - distribution network voltage test*
 - neutral identification test*
 - earthing system resistance test
 - distribution system load current test
 - multiple earth neutral (MEN) system loop impedance test/continuity test
 - phase sequence test
 - (*must do)
- inspecting overhead installations from at least two (2) of the following:
 - elevated work platform (EWP)
 - ladder
 - portable platform
- using specialised protection equipment, including at least two (2) of the following:

- insulating mats
- temporary bridging device
- insulating gloves
- ladder/pole shrouds
- equipotential bonding
- earthing and short circuiting
- inspecting protection/switchgear equipment, including any one of the following:
 - fuse switches
 - dropout fuses
 - disconnectors
 - links fuses
 - surge arrestors
- inspecting overhead conductors, including any one of the following:
 - open wire overhead conductor
 - aerial bundled cable (ABC)/covered conductor type (CCT*)
 - low voltage (LV) services
 - (*must do)
- inspecting hardware attached to poles and structures, including any one of the following:
 - underground/overhead transition points
 - transformers
 - reactors
 - regulators.

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 tested to ensure they are safe
 - the person/bodies responsible for the various aspects of ensuring distribution overhead installations are safe
 - results of tests that show a distribution remote area installation is safe for connection to the supply
 - results of periodic inspection and tests that show construction site wiring and equipment is safe to use
 - results of periodic inspection and tests that show the distribution remote area installations electrical equipment are safe to use
- testing installations, including:
 - distribution system phasing, phase rotation and polarity is correct and conforms to network construction standards

- electrical distribution network voltage levels comply with network supply standards
- potential present upon distribution network neutral conductors conform to network supply standards
- insulation resistance is adequate
- earthing system and MEN system components are verified as correctly installed
- documentation, including:
 - results of tests conducted on a distribution remote area installation in accordance with work requirements and ensuring the distribution installation is safe
 - documents of periodic inspection and testing of distribution remote area 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 distribution remote area installations
- applicable documentation, including workplace procedures, network construction standards, network supply standards, 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>