



Australian Government

UETTDRRF11 Testing of connections to low voltage electricity networks

Release: 2

UETTDRRF11 Testing of connections to low voltage electricity networks

Modification History

Release 2. Amendment to the Performance Evidence.

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package.

Application

This unit covers the performance of testing of connections to low voltage (LV) electricity networks according to AS 4741-2010 Testing of connections to electricity networks. It specifies the mandatory requirements for testing when connecting and/or reconnecting a customer's installation to an electricity supply network.

It encompasses the minimum principles and tests required to confirm that the LV supply connections are correct,

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace subject to regulations for undertaking of electrical work.

Other conditions may apply under state and territory legislative and regulatory licencing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

There are no prerequisite competencies to this unit.

Competency Field

Refresher Training

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Prepare to perform test procedures

1.1 Instruction in hazards and risk control measures for specific work functions and work areas are identified and obtained

1.2 Tools and equipment needed for testing are checked for inspection date, safety and functionality

2 Carry out test procedures

2.1 Workplace procedures and work instructions for controlling risk are followed

2.2 Test procedures are conducted in accordance with AS 4741-2010 Testing of connections to electricity networks

2.3 Enterprise procedures for corrective actions are followed

2.4 Test results are documented in accordance with established enterprise procedures

3 Complete the test procedures

3.1 Processes for reporting to authorised personnel are confirmed in accordance with established procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDRRF11A Testing of connections to low voltage electricity networks.

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>

Assessment Requirements for UETTDRRF11 Testing of connections to low voltage electricity networks

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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 one occasion and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- preparing and using of test equipment
- preparing and correctly using personal protective equipment (PPE)
- testing of single phase and multi-phase connections to network operator's procedures
- documenting test results to network operator's procedures.

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:

- low voltage (LV) testing of network connections encompassing:
 - selection and inspection of test equipment relevant for the testing procedures
 - acceptable neutral voltage criteria
 - polarity testing
 - neutral integrity testing
 - phase rotation testing
 - phasing confirmation
 - corrective actions to network operator's procedures
 - recording and reporting results to network operator's procedures
- skills required to test LV network connection encompassing:
 - preparation and use of test equipment
 - preparation and correct use of PPE
 - testing of single phase and multi-phase connections to network operator's procedures
 - documenting test results to network operator's 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 PPE currently used in industry for testing of connections to LV electricity networks
- applicable documentation including workplace procedures, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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