



Australian Government

UETDRDP99 Test and verify distribution overhead installations

Release: 1

UETTDRDP99 Test and verify distribution overhead installations

Modification History

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 involves the skills and knowledge required to test and verify distribution overhead installations in the electricity supply industry (ESI).

It includes inspecting and testing processes necessary for verifying overhead distribution installations. It also includes using safe work practices and compliance with all requirements of visual inspections, mandatory, optional and functional test procedures, identifying non-compliance defects and reporting requirements.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

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

Pre-requisite Unit

Common Unit Group

UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE104A Solve problems in d.c. circuits

UEENEEE105A Fix and secure electrotechnology equipment

UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications

UEENEEG101A Solve problems in electromagnetic devices and related circuits

UEENEEG102A Solve problems in low voltage a.c. circuits

UETTDRDP11 Inspect overhead poles-structures and electrical apparatus

UETTDRDP12 Maintain overhead energised low voltage conductors and cables

UETTDRDP11 Apply sustainable energy and environmental procedures

UETTDRDP12 Operate plant and equipment near live electrical conductors and apparatus

UETTDRDP16 Working safely near live electrical apparatus

UETTDRDP41 Install network infrastructure electrical equipment

UETTDRIS42 Maintain network infrastructure electrical equipment

UETTDRIS52 Install and maintain poles, structures and associated hardware

UETTDRIS54 Install and maintain poles, structures and overhead conductors and cables

UETTDRIS56 Install and maintain low voltage overhead services

Competency Field

Distribution

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to inspect, test and verify overhead distribution installation

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Works schedules, construction plans, drawings, workplace procedures and material lists are received and confirmed
- 1.2 Job requirements and workplace procedures are identified and communicated with relevant personnel
- 1.3 Work health and safety (WHS)/occupational health and safety (OHS), environmental and workplace procedures for accessing, testing and verifying overhead distribution installations are obtained and confirmed for the purposes of the work to be performed
- 1.4 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant personnel and in accordance with workplace procedures
- 1.5 Hazards are identified, WHS/OHS risks assessed and control measures identified in accordance with workplace procedures
- 1.6 Relevant work permits are obtained, understood and signed in accordance with workplace procedures

- 1.7 Plant, equipment, tools and personal protective equipment (PPE) required for work are identified, obtained and confirmed in working order
 - 1.8 Specialist test and measurement equipment for testing and verification of overhead distribution installations are obtained, inspected and confirmed in working order and calibrated in accordance with requirements and workplace procedures
 - 1.9 Worksite is prepared to minimise risk, damage to property, commerce and individuals in accordance with workplace procedures
 - 1.10 Personnel participating in work are fully briefed and responsibilities confirmed in accordance with workplace procedures
 - 1.11 Traffic management plan is confirmed as being applied in accordance with workplace procedures
- 2 Carry out inspection, testing and verification of overhead distribution installation**
- 2.1 WHS/OHS, sustainable energy and environmental principles and practices are monitored and followed to reduce incidents in accordance with workplace procedures
 - 2.2 Requirements for lifting and/or climbing and/or working at heights and the use of power tools/equipment are followed in accordance with workplace procedures
 - 2.3 Inspection, safe access, testing and verification of overhead distribution installations are completed in agreed timeframes, to quality standards and with a minimum of waste in accordance with workplace procedures
 - 2.4 Overhead distribution installations and associated hardware are visually inspected, positioned, secured and terminated/connected in accordance with workplace procedures
 - 2.5 Energised tests and/or measurements to verify overhead distribution installations are determined in accordance with workplace safety procedures and relevant industry standards, as required
 - 2.6 Overhead distribution installations are checked for suitability and conformance with workplace procedures and relevant electrical network supply industry

standards

- 2.7 Overhead distribution installation protection methods and devices are validated in accordance with workplace procedures and relevant distribution network protection industry standards
- 2.8 Overhead distribution installation switchgear is validated in accordance with workplace procedures and relevant distribution network protection industry standards
- 2.9 Overhead distribution installations earthing systems and multiple earth neutral (MEN) system components are verified as correctly installed and conforming to workplace procedures and relevant distribution network industry standards
- 2.10 Mandatory tests are conducted to verify overhead distribution installation system voltage, phasing, phase rotation, polarity and neutral potential comply with relevant industry standards
- 2.11 Solutions used to solve overhead distribution installation problems are applied in accordance with workplace procedures
- 2.12 Quality checks of work are undertaken in accordance with workplace procedures

3 Report inspection and test findings

- 3.1 Hazards are identified, risks assessed and control measures implemented
- 3.2 Completed work is checked against work schedule, construction plans and drawings for compliance and anomalies are reported in accordance with workplace procedures
- 3.3 WHS/OHS and environmental incidents are reported in accordance with workplace procedures, as required
- 3.4 Worksite is rehabilitated, cleaned up and made safe and in accordance with workplace procedures
- 3.5 Non-compliance defects are identified, corrected and/or reported in accordance with workplace procedures
- 3.6 Recommendations for rectifying defects are made in accordance with workplace procedures

- 3.7 Mandatory documentation is completed in accordance with workplace procedures and relevant industry standards
- 3.8 Tools, equipment and surplus resources are, where appropriate, cleaned, checked and returned in accordance with workplace procedures
- 3.9 Relevant work permits are signed off and electrical equipment (network infrastructure) are returned to service in accordance with workplace procedures
- 3.10 Work records, reports and/or documentation are completed in accordance with workplace 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 UETTDRDP99A Test and verify distribution overhead installations.

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>