



Australian Government

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.

Application

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

It includes visual inspection and verification of maintenance requirements of de-energised transmission towers and associated hardware. It also includes repairing and replacing components in accordance with construction plans, specifications, work orders and workplace procedures, updating system data and records and completing relevant documentation.

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 requirement 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

UETTDREL11 Apply sustainable energy and environmental procedures

UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus

UETTDREL16 Working safely near live electrical apparatus

UETTD RIS54 Install and maintain poles, structures and overhead conductors and cables

UETTD RTP26 Install transmission structures and associated hardware

UETTD RTP27 Maintain transmission structures and associated hardware

UETTD RTP29 Install and maintain transmission overhead conductors and cables

UETTD RTP30 Inspect transmission overhead structures and electrical apparatus

Competency Field

Transmission

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to inspect, verify and replace or repair overhead transmission installations

PERFORMANCE CRITERIA

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

- 1.1** Work 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 transmission overhead 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 are assessed and control measures identified in accordance with workplace procedures
- 1.6** Relevant work permits are confirmed and signed in accordance with workplace procedures

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| | 1.7 | Plant, equipment, tools and personal protective equipment (PPE) required for work are identified, obtained and confirmed in working order |
| | 1.8 | Worksite is prepared to minimise risk, damage to property, commerce and individuals in accordance with workplace procedures |
| | 1.9 | Traffic management plan is confirmed as being applied in accordance with workplace procedures |
| 2 Inspect, verify and replace or repair overhead transmission installations | 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 | Testing and verifying transmission of overhead installations is completed in agreed timeframes and to quality standards with a minimum of waste in accordance with workplace procedures |
| | 2.4 | Overhead transmission installations are confirmed as de-energised and able to be earthed in accordance with workplace earthing procedures |
| | 2.5 | Overhead transmission installations and associated hardware are visually inspected and confirmed as positioned, secured and terminated/connected in accordance with job requirements and workplace procedures |
| | 2.6 | Overhead transmission installations are checked for suitability and compliance with workplace construction standards and relevant electrical network supply industry standards |
| | 2.7 | Quality checks of work are undertaken in accordance with workplace procedures |
| 3 Complete inspection, verification and replacement or repair of overhead transmission installations | 3.1 | WHS/OHS risk control work completion measures and procedures are followed |

- 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 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
- 3.8 Tools, equipment and surplus resources and materials are, where appropriate cleaned, checked and returned to storage 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 UETTDRTTP99A Test and verify transmission 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>