



Australian Government

UETTD RTP27 Maintain transmission structures and associated hardware

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 covers the maintenance of non-energised, pyramid, delta, Pi or enterprise-specific transmission towers and associated hardware. It includes the repair and/or replacement of components in accordance with construction plans, specifications, work orders and standing enterprise requirements. Maintenance also involves cleaning and welding. The updating of system data, records and/or completion of relevant documentation in accordance with enterprise requirements also forms part of this competency.

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

Common Unit Group

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

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE105A Fix and secure electrotechnology equipment

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

UETTDREL11 Apply sustainable energy and environmental procedures

UETTDREL16 Working safely near live electrical apparatus

UETTD RTP26 Install transmission structures and associated hardware

Competency Field

Transmission

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to maintain transmission towers and associated hardware

PERFORMANCE CRITERIA

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

- 1.1** Work schedules, including drawings, plans, requirements, established procedures and material lists, are received, analysed and confirmed, as necessary, by site inspection
- 1.2** Relevant requirements and established procedures for the work are communicated to all personnel and identified for all worksites
- 1.3** Work health and safety (WHS)/occupational health and safety (OHS) policies and procedures related to requirements and established procedures for the maintenance of towers and associated hardware are obtained and confirmed for the purposes of the work to be performed and communicated to relevant personnel
- 1.4** Work is prioritised and sequenced following consultation with others for completion within acceptable timeframes and in accordance with established procedures
- 1.5** Hazards are identified, WHS/OHS risks assessed and control measures prioritised, implemented and monitored, including emergency exits kept clear, according to established procedures
- 1.6** Resources, including personnel, equipment, tools and personal protective equipment (PPE), required for the job are obtained and confirmed in working order
- 1.7** Relevant work permits are obtained to access and perform work according to requirements and/or established procedures
- 1.8** Relevant personnel at worksite are confirmed current in first aid, pole tower/top rescue and other related work procedures according to requirements

- 1.9 Liaison and communication issues with others/authorised personnel, authorities, clients and land owners are resolved to carry out work where necessary
 - 1.10 Site is prepared according to the work schedule and to minimise risk and damage to property, commerce and individuals in accordance with established procedures
 - 1.11 Personnel participating in the work, including plant operators and contractors, are fully briefed and respective responsibilities confirmed, where applicable, in accordance with established procedures
 - 1.12 Traffic management plan is identified and implemented
- 2 Carry out the maintenance of transmission towers and associated hardware**
- 2.1 WHS/OHS, sustainable energy and environmental principles and practices to reduce the incidents of accidents and minimise waste are monitored and followed in accordance with requirements and/or established procedures
 - 2.2 Towers and associated hardware to be maintained are stabilised according to requirements
 - 2.3 Lifting, climbing, working aloft, and use of power tools/equipment, techniques and practices are safely followed and currency according to requirements confirmed
 - 2.4 Essential knowledge and associated skills are applied in the safe maintenance of towers and associated hardware to ensure completion in an agreed timeframe and to quality standards with a minimum of waste according to requirements
 - 2.5 Hazard warnings and safety signs are recognised and hazards and assessed WHS/OHS risks are reported to immediate authorised personnel for directions according to established procedures
 - 2.6 Maintenance, including repair and/or replacement of towers, is carried out in accordance with the work schedule and requirements/established procedures
 - 2.7 Unplanned events in the maintenance of towers and associated hardware are undertaken within the scope of established procedures
 - 2.8 Known solutions to a variety of problems are applied

- using acquired essential knowledge and associated skills
- 2.9** Ongoing checks of quality of the work are undertaken in accordance with instructions and established procedures
- 3 Complete the maintenance of transmission towers and associated hardware**
- 3.1** Work undertaken is checked against work schedule for conformance with requirements and anomalies reported in accordance with established procedures
- 3.2** Accidents and/or injuries are reported in accordance with requirements/established procedures, where applicable
- 3.3** Worksite is rehabilitated, cleaned up and made safe in accordance with established procedures
- 3.4** Tools, equipment and any surplus resources and materials are, where appropriate, cleaned, checked and returned to storage or disposed of in accordance with established procedures
- 3.5** Relevant work permits are signed off and towers and associated hardware are returned to service in accordance with requirements
- 3.6** Work completion records, reports, as installed//modified drawings and/or documentation and information are finalised and processed and appropriate personnel notified

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 UETTDRT27A Maintain transmission structures and associated hardware.

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>