



Australian Government

UETTD RTP33 Maintain energised transmission lines using bare hand technique on a helicopter platform

Release: 1

UETTD RTP33 Maintain energised transmission lines using bare hand technique on a helicopter platform

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 energised high voltage (HV) transmission overhead electrical apparatus, i.e. live line work using bare hand techniques from a helicopter platform. It includes the verification of site conditions and potential hazards, the conformation and calculation of physical loads and the selection of appropriate and authorised work methods. It includes the preparation and cleaning of specialist material and tools in accordance with authorised technical instructions.

It also encompasses the undertaking of work health and safety (WHS)/occupational health and safety (OHS) and safe working practices and the rendering inoperative of the automatic re-closing device, including its restoration in accordance with the work plan and the procedure of issuing/accepting electrical access permits and/or relevant work document.

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

All competencies in one (1) of the identified Pathway Unit Group(s) must have been completed.

Pathway 1

Qualified and authorised Transmission Lineworker

Pathway 2

BSBLDR403 Lead team effectiveness

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 RIS65 Contribute to coordinated HV live working

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

UETTD RTP31 Maintain energised transmission lines using high voltage live work stick method

UETTD RTP32 Maintain energised transmission lines using high voltage live work bare hand method

UETTD RTP99 Test and verify transmission overhead installations

Competency Field

Transmission

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare/plan to maintain energised lines (transmission) using bare hand technique from a helicopter platform

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 obtained and analysed, as necessary, by site inspection and the extent of the preparation of the work determined for planning and coordination
- 1.2** Work is prioritised and sequenced for the most efficient and effective outcome following consultation with others for completion within acceptable timeframes, to a

quality standard and in accordance with established procedures

- 1.3 Risk control measures are identified, prioritised and evaluated against the work method
- 1.4 Relevant requirements and established procedures for the work are communicated to all personnel and identified for all worksites
- 1.5 Hazards are identified, WHS/OHS risks assessed and control measures prioritised, implemented and monitored, including emergency exits kept clear, to ensure safe systems of work are followed and according to established procedures
- 1.6 Relevant work permits are secured to coordinate the performance of work according to requirements and/or established procedures
- 1.7 Resources, including personnel, equipment, tools and personal protective equipment (PPE), required for the job are identified, scheduled and coordinated and confirmed safe and in technical working order
- 1.8 Relevant personnel at worksite are confirmed current in first aid, cardiopulmonary resuscitation (CPR) and other rescue procedures according to requirements
- 1.9 Liaison and communication issues with others/authorised personnel, authorities, clients and land owners are resolved and activities coordinated to carry out work
- 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 instructed in respective responsibilities coordinated and authorised, where applicable, in accordance with established procedures
- 1.12 Positioning of road signs, barriers and warning devices is planned and coordinated in accordance with requirements

2 Carry out the maintenance of energised

- 2.1 WHS/OHS and sustainable energy principles and practices to reduce the incidents of accidents and

lines (transmission) using bare hand technique from a helicopter platform	minimise waste are monitored and actioned in accordance with requirements and/or established procedures
	2.2 First aid, CPR, other rescue procedures and related work procedures are performed according to requirements and/or established procedures
	2.3 Lifting and tools/equipment, techniques and practices are safely exercised according to requirements
	2.4 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
	2.5 Remedial actions are taken to overcome any shortfalls encountered in the work schedule according to requirements and/or established procedures
	2.6 Maintenance of energised high voltage (HV) overhead electrical transmission apparatus is carried out in accordance with the work schedule and requirements and/or established procedures
	2.7 Essential knowledge and associated skills are applied in the safe maintenance of energised HV overhead electrical transmission apparatus to ensure completion in an agreed timeframe and to quality standards with a minimum of waste according to requirements
	2.8 Solutions to non-routine problems are identified and actioned using acquired essential knowledge and associated skills according to requirements
	2.9 Ongoing checks of quality of the work are undertaken in accordance with requirements and established procedures to ensure a quality outcome is achieved for the client/customer and to a community/industry standard
3 Complete the maintenance of energised lines (transmission) using bare hand technique from a helicopter platform	3.1 Work is checked against schedule for conformance and anomalies reported in accordance with established procedures
	3.2 Accidents and/or injuries are reported and followed up in accordance with requirements/established procedures

- 3.3 Worksite is rehabilitated, cleaned up and confirmed 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 in accordance with established procedures
- 3.5 Relevant work permits (live line) are signed off and client/customer advised in accordance with requirements
- 3.6 Works completion records, reports, as installed//modified drawings and/or documentation and information are confirmed, 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 UETTDRTTP33A Maintain energised transmission lines using Barehand technique on a helicopter platform.

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>