



Australian Government

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

Release: 1

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

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 maintain energised transmission lines using high voltage (HV) live work stick method in the electricity supply industry (ESI).

It includes maintaining live work using stick techniques, including verifying site conditions and potential hazards, the conformation and calculation of physical loads and selecting appropriate and authorised work methods. It also includes preparing and cleaning of specialist materials and tools in accordance with authorised technical instructions, undertaking occupational health and safety (WHS)/occupational health and safety (OHS), safe working practices, rendering inoperative the automatic re-closing device including its restoration in accordance with work plan, and procedures for issuing/accepting live work authorities/permits and/or relevant work documentation.

The application of the skills and knowledge described in this unit may require a licence to operate specific pieces of equipment such as elevated work platforms.

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

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

Pathway 1

Certificate III Transmission overhead powerline worker or a qualified transmission powerline worker.

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 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 Plan to maintain energised transmission lines using HV live work stick method

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 obtained and analysed
- 1.2** Job requirements and workplace procedures are identified and communicated with relevant personnel
- 1.3** Hazards are identified, WHS/OHS risks assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
- 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 Risk control measures are identified, prioritised and evaluated against the work schedule
- 1.6 Relevant work permits are obtained and signed in accordance with workplace procedures
- 1.7 Equipment, tools and personal protective equipment (PPE) required for work are identified, obtained and confirmed in working order
- 1.8 Relevant personnel at worksite are confirmed current in first aid, cardiopulmonary resuscitation (CPR) and other rescue procedures in accordance with job requirements and/or workplace procedures
- 1.9 Liaison and communication issues with authorised personnel, authorities, clients and land owners are resolved to perform work, as required
- 1.10 Worksite is prepared to minimise risk, damage to property, commerce and individuals in accordance with workplace procedures
- 1.11 Personnel participating in work are fully briefed and responsibilities confirmed in accordance with workplace procedures
- 1.12 Traffic management is planned and implemented in accordance with workplace procedures

2 Carry out the maintenance of energised transmission lines using HV live work stick method

- 2.1 WHS/OHS, sustainable energy and environmental principles and practices are monitored and actioned to reduce incidents of accidents in accordance with workplace procedures
- 2.2 First aid, CPR and other rescue procedures are performed in accordance with job requirements and/or workplace procedures
- 2.3 Requirements for lifting, climbing, working at heights, confined spaces and use of power tools/equipment are followed in accordance with workplace procedures
- 2.4 Hazard warnings and safety signs are recognised and hazards and assessed WHS/OHS risks are reported to

immediate authorised personnel for directions in accordance with established procedures

- 2.5 Auto-reclose devices and associated circuits are rendered inoperative and necessary work documentation obtained in accordance with workplace procedures
- 2.6 Remedial actions are taken to overcome shortfalls encountered in the work schedule in accordance with job requirements and workplace procedures
- 2.7 Maintenance of energised HV overhead electrical transmission apparatus is performed in accordance with work schedules, job requirements and workplace procedures
- 2.8 Energised HV overhead electrical transmission apparatus is maintained to ensure completion in agreed timeframes, to quality standards and with minimum waste in accordance with workplace procedures
- 2.9 Solutions to non-routine problems are identified and actioned in accordance with workplace procedures
- 2.10 Quality checks of work are undertaken in accordance with industry standards and workplace procedures

3 Complete the maintenance of energised transmission lines using HV live work stick method

- 3.1 Completed work is checked against work schedule, construction plans and drawings for compliance and anomalies are reported in accordance with workplace procedures
- 3.2 WHS/OHS and environmental incidents are reported in accordance with workplace procedures, as required
- 3.3 Worksite is cleaned and confirmed safe in accordance with workplace procedures
- 3.4 Tools, equipment, surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance with workplace procedures
- 3.5 Relevant work permits are signed off and client/customer advised in accordance with workplace procedures
- 3.6 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 UETTDRT31A Maintain energised transmission lines using high voltage live work stick method.

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>