



**Australian Government**

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

**Release: 1**

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

## **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 install and maintain overhead conductors and cables used on poles and structures (excluding towers) in the electricity supply industry (ESI).

It includes stringing, tensioning and terminating of conductors/cables, cleaning de-energised insulators, securing conductors to insulators or supports and undertaking electrical connections.

It also includes maintenance work associated with diagnosing faults, conducting visual inspections, confirming phasing, completing workplace tests, isolating systems and circuits, issuing/accepting electrical access permits and updating system data/maintenance records.

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

UEENEEE105A Fix and secure electrotechnology equipment

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

UETTDRIL11 Apply sustainable energy and environmental procedures

UETTDRIL16 Working safely near live electrical apparatus

## **Competency Field**

Industry Specific Cross Discipline

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### **1 Prepare for installation and maintenance of overhead conductors and cables used on poles and/or structures**

### 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 the installation and maintenance of overhead conductors and cables used on poles and/or structures 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** 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 Carry out installation and maintenance of overhead conductors and cables used on poles and/or structures**
- 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** Electrical systems and circuits are checked and isolated in accordance with job requirements, work permits and workplace procedures
- 2.4** Installation and maintenance of overhead conductors and cables used on poles and/or structures are completed in agreed timeframes, to quality standards and with a minimum of waste in accordance with workplace procedures
- 2.5** Overhead conductor/cables are strung, tensioned and terminated in accordance with workplace procedures
- 2.6** Insulators are cleaned and conductors, anti-vibration devices and spaces/spreaders are secured in accordance with workplace procedures
- 2.7** Electrical connections are made in accordance with job requirements and workplace procedures
- 2.8** Maintenance, including repair and/or replacement of overhead conductors and cables used on poles and/or structures, is carried out in accordance with work schedule, job requirements and workplace procedures
- 2.9** Unplanned events are responded to in accordance with workplace procedures
- 2.10** Quality checks of work are undertaken in accordance with workplace procedures
- 3 Complete installation and maintenance of overhead conductors and cables used on poles and/or structures**
- 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 rehabilitated, cleaned up and made safe in accordance with workplace procedures
- 3.4 Tools, equipment and 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 overhead conductors and cables used on poles and/or structures are returned to service in accordance with workplace procedures
- 3.6 Conductors/cables are tested and commissioned in accordance with job requirements and workplace procedures
- 3.7 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 UETTDRIS54A Install and maintain poles, structures and overhead conductors and cables.

## 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>