



Australian Government

**UETTD RIS36 Install and maintain low
voltage services in remote communities
(overhead)**

Release: 1

UETTDRIS36 Install and maintain low voltage services in remote communities (overhead)

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 low voltage (LV) services in remote communities (overhead) in the electricity supply industry (ESI).

It includes the installation, maintenance and connection of LV overhead service lines and associated equipment between the connection point and the point of supply.

It also includes the repair and replacement of service cables, service fuses and the replacement and repair of service hardware, and the identification and rectification of faults. It also covers insulation, voltage, phase rotation and polarity testing.

All installation and maintenance of LV overhead services in remote communities must be undertaken in a non-energised (dead) environment other than for testing purposes.

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 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

UEENEEE103A Solve problems in ELV single path circuits

UEENEEE105A Fix and secure electrotechnology equipment

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

UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work

UEENEEK101A Maintain safety and tidiness of remote area power supply systems

UEENEEK102A Work safely with remote area power supply systems

UEENEEK116A Maintain and repair remote area power generation facilities

UEENEEK120A Maintain operation of remote area power generation plant
UETTDREL11 Apply sustainable energy and environmental procedures
UETTDREL16 Working safely near live electrical apparatus
UETTDNIS32 Solve electrical problems in remote community network apparatus
UETTDNIS33 Solve electrical problems in remote community network systems
UETTDNIS99 Test and verify distribution remote area installations

Competency Field

Industry Specific Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to install and maintain LV overhead services in remote communities

PERFORMANCE CRITERIA

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

- 1.1** Work plan, construction plans, drawings, workplace procedures and material lists are received, confirmed and communicated with relevant personnel
- 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 LV overhead services and associated equipment 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 and implemented in accordance with workplace procedures

- 1.6 Relevant work permits are obtained and signed in accordance with workplace procedures
 - 1.7 Plant, equipment, tools and personal protective equipment (PPE) required for work is 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 LV overhead services in remote communities**
- 2.1 Implemented hazard control measures are monitored in accordance with workplace procedures
 - 2.2 WHS/OHS, sustainable energy and environmental principles and practices are applied in accordance with workplace procedures
 - 2.3 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
 - 2.4 Remote community electrical network equipment is isolated, proved de-energised and earthing equipment installed, as required, in accordance with workplace procedures
 - 2.5 LV field switching is performed in accordance with a given schedule and workplace procedures
 - 2.6 Installation and maintenance of LV overhead services, including mains, are completed in accordance with job requirements, work permits and workplace procedures
 - 2.7 Unplanned events are responded to in accordance with workplace procedures
 - 2.8 Earthing equipment is removed and remote community overhead network equipment is re-energised and returned to service in accordance with workplace procedures
 - 2.9 LV overhead services are tested in accordance with job requirements and workplace procedures

- 3 Complete installation and maintenance of LV overhead services in remote communities**
- 2.10** Quality checks of work are undertaken in accordance with workplace procedures
 - 3.1** Completed work is checked against works schedule, construction plans and drawings for compliance and anomalies are reported in accordance with workplace procedures
 - 3.2** WHS/OHS and environmental incidents/accidents and injuries 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 are, where appropriate, are cleaned, checked and returned to storage in accordance with workplace procedures
 - 3.5** Relevant work permits are relinquished and signed off in accordance with workplace procedures
 - 3.6** Work records, reports and documentation are completed and relevant personnel notified 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 UETTDRIS36A Install and maintain low voltage services in remote communities (overhead).

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>