



Australian Government

UETTD RIS41 Install network infrastructure electrical equipment

Release: 1

UETTDRIS41 Install network infrastructure electrical equipment

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 network infrastructure electrical equipment in the electricity supply industry (ESI).

It includes terminating and/or connecting equipment, conducting relevant pre-commissioning tests involving the equipment/system, and interpreting tests against agreed specifications.

Electrical equipment includes but is not limited to transformers, fuse switches, drop out switches, sectionalisers, links, surge arrestors, gas filled and/or oil filled switches, which are relevant to transmission, distribution and rail networks.

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

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

Common Unit Group

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

UETTDRIL11 Apply sustainable energy and environmental procedures

UETTDRIL12 Operate plant and equipment near live electrical conductors and apparatus

UETTDRIL16 Working safely near live electrical apparatus

Transmission Overhead Pathway Group

UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables

UETTDRT26 Install transmission structures and associated hardware

UETTDRT27 Maintain transmission structures and associated hardware

UETTDRT29 Install and maintain transmission overhead conductors and cables

Distribution Overhead Pathway Group

UETTDNDP12 Maintain overhead energised low voltage conductors and cables

UETTDNIS52 Install and maintain poles, structures and associated hardware

UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables

UETTDNIS56 Install and maintain low voltage overhead services

Rail Traction Pathway Group

UETTDNIS52 Install and maintain poles, structures and associated hardware

UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables

UETTDNRT21 Install traction overhead wiring systems

UETTDNRT22 Maintain traction overhead wiring systems

UETTDNRT23 Install rail traction bonds

UETTDNRT27 Install overhead traction components and equipment

UETTDNRT28 Maintain overhead traction components and equipment

Distribution Cable Jointing Pathway Group

UETTDNRCJ21 Lay ESI electrical cables

UETTDNRCJ26 Install and maintain de-energised low voltage underground polymeric cables

UETTDNRCJ27 Install and maintain de-energised high voltage underground polymeric cables

UETTDNIS55 Install and maintain low voltage underground services

Competency Field

Industry Specific Cross Discipline

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare for installation of network infrastructure electrical equipment

- 1.1** Work schedules, construction plans and drawings, material lists and workplace procedures 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 of electrical equipment (network infrastructure) 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, work health and safety (WHS)/occupational health and safety (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 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 Install network infrastructure electrical equipment

- 2.1** WHS/OHS, environmental requirements and workplace procedures are monitored and followed to reduce incidents in the workplace
- 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** Installation of network infrastructure electrical

- equipment is completed in accordance with work schedule, construction plans and drawing and workplace procedures
- 2.4** Unplanned events in the installation of electrical equipment are responded to in accordance with workplace procedures
- 2.5** Quality checks of work are undertaken in accordance with workplace procedures
- 3 Complete installation of network infrastructure electrical equipment**
- 3.1** Completed work is checked/tested 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 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 UETTDRIS41A Install network infrastructure electrical

equipment.

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>