

Australian Government

UETTDRRT22 Maintain traction overhead wiring systems

Release: 1

UETTDRRT22 Maintain traction overhead wiring systems

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 traction overhead wiring systems in the electricity supply industry (ESI).

It includes maintaining and repairing overhead traction wiring systems on or about the running line/track and preparing for stringing and profiling, including isolating systems and circuits for safe working. It also includes diagnosing faults, modifying and adjusting to appropriate standards, identifying and implementing road/rail management plans, issuing/accepting electrical permits, recommissioning tests to ensure integrity of traction system prior to returning to service and updating system data and/or 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

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

UETTDRIS52 Install and maintain poles, structures and associated hardware

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

UETTDRRT21 Install traction overhead wiring systems

Competency Field

Rail Traction

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 to maintain overhead traction wiring systems	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 maintenance of overhead traction wiring systems 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 track protection officer and/or network control officer and workplace procedures
- 1.9 Road/rail management plan is identified and implemented in accordance with workplace procedures
- 1.10 Environmental constraints applicable to work are identified and control measures applied
- 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 Systems and circuits are isolated, as required, and proved safe to work on in accordance with job requirements, work permits and workplace procedures
 - 2.4 Overhead traction wiring systems are maintained in agreed timeframes, to quality standards and with a minimum of waste in accordance with workplace procedures
 - 2.5 Maintenance, including repair and/or replacement of overhead traction wiring systems, including the modification and re-adjustment of overhead traction conductors, is performed in accordance with workplace procedures
 - 2.6 Unplanned events are responded to in accordance with workplace procedures
 - 2.7 Quality checks of work are undertaken in accordance with workplace procedures
 - 2.8 Recommissioning checks and tests are performed to ensure integrity of system prior to returning to service
- **3** Complete maintenance on **3.1** Completed work is checked against works schedule, overhead traction wiring construction plans and drawings for compliance and anomalies are reported in accordance with workplace systems procedures

2 Perform maintenance on overhead traction wiring systems

- **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 the overhead traction wiring system is returned to service 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 UETTDRRT22A Maintain traction overhead wiring systems.

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