



Australian Government

TLIB3058 Maintain aerial signal/telecommunications lines and cables

Release: 1

TLIB3058 Maintain aerial signal/telecommunications lines and cables

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to maintain aerial signal/telecommunications lines and cables in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes inspecting and servicing line and cable routes, diagnosing identified line and cable faults, and repairing line and cable faults to the standards specified to ensure system integrity.

Work is performed under minimal supervision, generally within a team environment.

It involves the application of routine operational principles and procedures when maintaining aerial signal/telecommunications lines and cables, as part of workplace activities across a variety of operational contexts within the Australian rail system.

People achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice and/or guidelines.

Operators of mechanised equipment must have undertaken training and, where appropriate, hold the relevant licence, permit or certificate and be recognised as competent for the class of machinery being used.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

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 Inspect and service line and cable routes

- 1.1 Routes are inspected and recorded, and arrangements are made for the removal of any obstructions, damage or infringing vegetation to provide free access to cables/aerials
- 1.2 Hazards are identified, risks are assessed and risk control measures are implemented
- 1.3 Routes are physically inspected to determine breaks, misalignments, damage and insulation wear requiring repair
- 1.4 Poles are inspected for deterioration and a safety assessment is made

2 Diagnose line and cable faults

- 2.1 Permission to test isolated equipment is confirmed prior to work being undertaken
- 2.2 Probable location of fault is identified from visual inspection and circuit tests are conducted to isolate fault area
- 2.3 Nature of fault is identified from further tests and corrective action required is identified to enable appropriate arrangements for resources and for work to be performed
- 2.4 Disconnection/insulation procedures are applied to enable maintenance work to be performed in isolation to systems where lines are in close proximity to high voltage services

3 Repair line and cable faults

- 3.1 Worksite is made safe in accordance with organisational safety requirements to enable repair work to be safely undertaken
- 3.2 Aerial lines/cables are repaired to operational and technical requirements using appropriate jointing or replacement/repair procedures
- 3.3 Repaired/replaced line/cable is tested to specified standards to ensure conformity to operational and technical requirements
- 3.4 Appropriate personnel are notified of completed repairs/replacement and appropriate documentation is completed and processed in accordance with organisational requirements and returned to appropriate organisation/department as required

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 can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIB3058A Maintain aerial signal/telecommunications lines and cables.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>