



Australian Government

TLIB3048 Carry out off-site repair, overhaul and assembly of mechanical signalling equipment

Release: 1

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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 carry out off-site repair, overhaul and assembly of mechanical signalling equipment in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes assessing equipment condition, replacing out-of-specification components, producing components as required, assembling components, and testing and adjusting equipment to ensure overall system integrity.

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.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures to the off-site repair, overhaul and assembly of mechanical signalling equipment, as part of workplace activities across a variety of operational contexts within the Australian rail system.

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 Assess equipment condition

- 1.1 Equipment condition is established through tagged repair sheets from the field and initial examination
- 1.2 Condition of all out-of-tolerance equipment and components is correctly identified and recorded through detailed inspection and testing
- 1.3 Type and extent of required repairs are evaluated to determine viability of repair operations and to estimate time requirements
- 1.4 Components requiring disposal are identified and replacement components are arranged to allow work to commence

2 Replace components

- 2.1 Equipment is dismantled to the extent required to carry out previously identified repairs
- 2.2 Components requiring replacement are stored for later repair/disposed of in line with organisational requirements
- 2.3 Components are replaced/repaired/returned to operational condition in line with technical specifications and standard workshop practices

3 Produce components

- 3.1 Components are produced to comply with the defined job requirements and technical specifications
- 3.2 Appropriate manufacturing/workshop techniques are applied to ensure required quality components are produced

4 Assemble components

- 4.1 Assembly methods and sequencing are planned to ensure efficient operations
- 4.2 Components are laid out for assembly in accordance with planned processes
- 4.3 Assembly of all components, sub-assemblies and equipment is correctly carried out in accordance with planned operations, and job and technical specifications
- 4.4 Securing methods and operations are carried out in accordance with job and technical specifications

5 Test and adjust

- 5.1 Equipment functions are tested to ensure conformance to

equipment

drawings and specifications

- 5.2 Assembly and joining/securing processes and outcomes are checked and tested as required to match the job and technical specifications
- 5.3 Adjustments are made to ensure all equipment operations meet the technical specifications
- 5.4 Operational/functional compliance to the job and technical specifications is confirmed and certified
- 5.5 Required documentation is correctly completed and forwarded to appropriate personnel to confirm the equipment is certified for use

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 TLIB3048A Carry out off-site repair, overhaul and assembly of mechanical signalling equipment.

Links

Companion Volume implementation guides are found in VETNet -

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