



Australian Government

TLIS3005 Install mechanical infrastructure for signalling

Release: 1

TLIS3005 Install mechanical infrastructure for signalling

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 install mechanical infrastructure for signalling in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes assembling components, installing the equipment and components to specifications, and testing and adjusting the equipment to workplace requirements.

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 when installing mechanical infrastructure for signalling, 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

S – Construction and Installation

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1 Assemble components

- 1.1 Components are identified and selected correctly to comply with specifications
- 1.2 Hazards are identified, risks are assessed and control measures are implemented
- 1.3 Components are pre-assembled and positioned for installation and to identify any manufacturing fitting requirements
- 1.4 Components/linkages are modified to allow for complete installation in accordance with job specifications

2 Install equipment and components

- 2.1 Components are fabricated to ensure compliance with job specifications
- 2.2 Equipment/component layouts are checked to ensure positioning job specifications
- 2.3 Hole/fastening positions are marked and drilled to allow for installation
- 2.4 Equipment/components are assembled and secured in the correct sequence
- 2.5 Interlinking components are attached and secured
- 2.6 Operational power source is connected by appropriate personnel as required to allow for operational testing

3 Test and adjust equipment

- 3.1 Required authorisation for testing is confirmed to ensure safe train operations may continue
- 3.2 Correct test equipment/procedures are identified
- 3.3 Appropriate tests are correctly carried out in conjunction with other personnel to ensure operational compliance
- 3.4 Required adjustments are carried out in conjunction with other personnel as required to ensure correct operational compliance
- 3.5 Operational readiness is confirmed and required documentation/certification is correctly completed to allow for commissioning
- 3.6 Equipment is locked and secured to ensure against unauthorised interference

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 TLIS3005A Install mechanical infrastructure for signalling.

Links

Companion Volume implementation guides are found in VETNet -

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