



Australian Government

TLIS2044 Carry out rail installation

Release: 2

TLIS2044 Carry out rail installation

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor statement changes in Assessment Conditions.

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 rail in accordance with safeworking and regulatory requirements, and organisational policies and procedures.

It includes identifying job requirements, preparing rail for installation, installing rail, joining rail ends, restoring track and completing documentation.

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

Work is performed under supervision, generally in a team environment. It involves the application of routine operational principles and procedures when installing rail, 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

Rail sector.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Identify job requirements

- 1.1** Scope of work is determined and resources are arranged
- 1.2** Hazards are identified, risks are assessed and control measures are implemented
- 1.3** Replacement rail is checked for compliance with acceptance rail network standards, in accordance with organisational procedures

2 Prepare rail for installation

- 2.1** Rails are loaded and unloaded using approved methods to minimise risk to health and safety, and damage to rail components
- 2.2** Rails are cut to required length using an appropriate method to minimise delays and wastage
- 2.3** Rails are bent, as required, to the correct curvature to ensure correct track geometry is maintained to rail industry standard

3 Position rail

- 3.1** Existing rail is unfastened and removed, as required, using appropriate equipment or manual method
- 3.2** New rail is lifted into place using appropriate equipment or manual method, maximising efficiency and minimising risk of injuries

4 Join rail ends

- 4.1** Rail joints are prepared for welding or are assembled and installed to specifications in accordance with organisational procedures
- 4.2** Rail bonds or other track circuit connections are installed or restored, as required, in accordance with organisational procedures

5 Restore track

- 5.1** Track fastenings are restored in accordance with organisational procedures
- 5.2** Track measurements are recorded in accordance with workplace procedures
- 5.3** Equipment used to restore track is stored after use

6 Complete documentation

- 6.1** Documentation is completed in accordance with organisational procedures
- 6.2** Documentation is processed in accordance with

organisational 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 can be found in the TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIS2044A Carry out rail installation.

Links

Companion Volume Implementation Guides are found in VETNet -

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