



Australian Government

TLIB2097 Install and maintain guard rails

Release: 2

TLIB2097 Install and maintain guard rails

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 Performance Evidence
- 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 and maintain guard rails in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes determining job requirements, installing guard rails and completing all required documentation.

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.

Guard rails include guard rails installed on:

- level crossings and sharp curves to prevent derailment
- under bridges and near vulnerable structures to limit lateral movement of derailed wagons.

Work is performed under minimal supervision, generally within a team environment. It involves the application of routine operational principles and procedures when installing and maintaining guard rails, 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

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Determine job requirements

- 1.1** Worksite is identified
- 1.2** Hazards are identified, risks are assessed and control measures are implemented
- 1.3** Obstructions are cleared from gangways/flangeways to ensure safe passage of trains
- 1.4** Installation, replacement or repair method is selected in accordance with work requirements, rail industry standards and workplace procedures
- 1.5** Plant, equipment and materials are prepared for work

2 Install guard rail

- 2.1** Existing guard rail is removed, as required, to enable fitting of new rail
- 2.2** New or replacement guard rail is installed to required standards using suitable equipment and fastening system to restore functionality of guard rail
- 2.3** Final job is checked for compliance to required standards to enable services to be restored safely

3 Complete documentation

- 3.1** Required documentation procedures and processes are confirmed
- 3.2** Documentation is filled in legibly and proofread
- 3.3** Documentation is processed 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.

Unit Mapping Information

This unit replaces and is equivalent to TLIB2097A Install and maintain guard rails.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for TLIB2097 Install and maintain guard rails

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- applying relevant workplace procedures
- ensuring completed work meets track geometry requirements
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- installing and maintaining guard rails on underbridges, level crossings in open track in accordance with workplace requirements
- interpreting and following operational instructions
- modifying activities depending on operational contingencies, risk situations and environments
- reading and interpreting relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with rail industry standards, regulatory requirements and workplace procedures
- selecting appropriate material for guard rails
- working systematically with required attention to detail without injury to self or others, or damage to materials or equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- guard rail installation and maintenance techniques and processes
- hazards that may exist when carrying out the installation and maintenance of guard rails, and ways of controlling the risks involved
- principles of guard rail function
- problems that may occur when installing and maintaining guard rails, and action that can be

- taken to report or resolve these problems
- rail industry standards applicable to guard rails
- relevant rail industry standard
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- relevant technical manuals and instructions
- workplace procedures for installing and maintaining guard rails.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations or, where this is not available, in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation including workplace procedures, regulations, rail industry standards, codes of practice and operation manuals.

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