



Australian Government

TLIB3102 Adjust rail

Release: 2

TLIB3102 Adjust rail

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 adjust rail in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes identifying and determining the requirements for rail adjustment, undertaking rail adjustment, 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.

Work is performed under some supervision, generally within a team environment. It involves the application of routine operational principles and procedures when adjusting rail, as part of workplace activities across a variety of operational contexts within the Australian rail system.

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.

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 Identify and determine rail adjustment requirements

- 1.1 Appropriate adjustment method is determined and required resources are arranged
- 1.2 Hazards are identified, risks are assessed and control measures are implemented
- 1.3 Adjustment length is established depending on track geometry and location, in accordance with workplace procedures

2 Adjust rail

- 2.1 Anchor points are identified and created as required to enable rail adjustment to be undertaken in accordance with workplace procedures
- 2.2 Track is released and rail is vibrated to achieve stress-free state in accordance with workplace procedures
- 2.3 Measurements are appropriately taken and used to calculate adjustment requirements in accordance with workplace procedures
- 2.4 Rail length is adjusted using appropriate method to achieve desired rail stress
- 2.5 Rail is joined using determined appropriate method in accordance with workplace procedures
- 2.6 Track fastenings are restored in accordance with workplace procedures
- 2.7 Creep control marks are installed or reset in continuous welded rail track, as required, in accordance with workplace procedures

3 Complete documentation

- 3.1 Completed work is checked for compliance with rail industry standards to ensure safe operation of trains and compliance records are processed
- 3.2 Documentation is completed and 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 TLIB3102A Adjust rail.

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 TLIB3102 Adjust rail

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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 track is restored in accordance with operational procedures
- establishing appropriate adjustment length
- identifying and determining appropriate methods for adjusting rail
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- installing and resetting creep control marks in continuous welded rail track, as required
- interpreting and following operational instructions and prioritising work
- measuring and calculating adjustment condition
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in equipment in accordance with operating procedures
- reading and interpreting relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions, in accordance with regulatory requirements and workplace procedures
- taking appropriate measurements and calculating adjustments
- using rail adjustment procedures for different track configurations
- working systematically with required attention to detail without injury to self or others, or damage to goods 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:

- creep control marks
- documentation and record keeping requirements

- hazards that may exist when adjusting rail and ways of controlling the risks involved
- problems that may occur when adjusting rail and action that can be taken to report or resolve these problems
- rail adjustment methods and critical aspects of rail stress
- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- temperature and alignment limitations on rail gap adjustment
- workplace procedures for adjusting rail.

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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