



Australian Government

TLIB2091 Measure and record track geometry

Release: 2

TLIB2091 Measure and record track geometry

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 measure and record track geometry in accordance with safeworking and regulatory requirements, and workplace procedures.

It includes measuring and recording track geometry, and reporting results.

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 measuring and recording track geometry, 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

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Measure geometry

- 1.1** Equipment and tools appropriate to task are selected and checked for correct operation in accordance with manufacturer instructions and workplace procedures
- 1.2** Hazards are identified, risks assessed and control measures implemented
- 1.3** Equipment is operated in accordance with manufacturer and work instructions to provide appropriate data for analysis

2 Record results

- 2.1** Data is recorded in a complete and accurate manner
- 2.2** Documentation is completed in accordance with workplace procedures, as required

3 Process data

- 3.1** Data is compared to maintenance/construction tolerances in accordance with workplace procedures
- 3.2** Results are reported 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 TLIB2091A Measure and record track geometry.

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 TLIB2091 Measure and record track geometry

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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
- completing relevant workplace documentation
- identifying job hazards and taking required action to minimise, control or eliminate identified hazards
- interpreting and following operational instructions
- modifying activities depending on operational contingencies, risk situations and environments
- reading and interpreting relevant instructions, procedures, information, plans, drawings and specifications
- reading recorded track geometry data
- recording and reporting results accurately in accordance with workplace procedures
- reporting and/or rectifying identified problems, in accordance with workplace procedures
- using appropriate measurement tools to measure a range of geometry elements
- 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:

- hazards that may exist when measuring and recording track geometry, and ways of controlling the risks involved
- problems that may occur when measuring and recording track geometry, and action that can be taken to report or resolve these problems
- relevant rail industry standards
- relevant rail safety, work health and safety (WHS)/occupational health and safety (OHS) and

- environmental procedures and regulations
- relevant records procedures
- safeworking procedures
- track geometry parameters including the horizontal and vertical alignment, cross-level and cant of the track
- workplace procedures for measuring and recording track parameters.

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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