



Australian Government

TLIB2085 Apply track fundamentals

Release: 2

TLIB2085 Apply track fundamentals

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 apply fundamentals of track maintenance and construction, and to carry out basic track measurement, in accordance with approved rail industry standards, safeworking and regulatory requirements, and workplace procedures.

It includes identifying track terminology, track components and track tools and equipment; and undertaking basic track measurement.

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 to the fundamentals of track maintenance and construction, 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 Identify track and structures infrastructure	1.1	Basic track and structures infrastructure terminology is explained
	1.2	Track geometry features are explained
2 Identify track components	2.1	Principal track components are identified and their purpose is explained
	2.2	Principal turnout components are identified and their purpose is explained
3 Identify track tools and equipment	3.1	Tools and equipment for track installation and maintenance are identified
	3.2	Track machines for track installation and maintenance are identified
4 Undertake basic track measurement	4.1	Terminology for track measurement is identified and defined
	4.2	Measuring equipment is identified and relevant equipment is selected for taking basic track measurements
	4.3	Measuring equipment is checked for accuracy
	4.4	Basic track measurements are taken accurately and recorded in accordance with workplace requirements

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 TLIB2085A Apply track fundamentals.

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 TLIB2085 Apply track fundamentals

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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 documentation related to basic track measurement
- identifying job hazards and 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, technical data, standards and drawings
- reporting and/or rectifying identified problems, faults or malfunctions promptly, in accordance with regulatory requirements and workplace procedures
- selecting equipment used for basic track measurement
- 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:

- fundamentals of track layout and geometry
- fundamentals of track structures including perway
- hazards that may exist when measuring track and ways of controlling the risks involved
- problems that may occur when measuring track and action that can be taken to report or resolve these problems
- relevant rail danger zones

- relevant work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations
- relevant safeworking systems and procedures including track access
- tools and equipment used in track installation and maintenance
- track components including rails, rail connectors, sleepers, ballast, points, and crossings (and substitute devices, as required)
- workplace procedures for measuring track.

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, codes of practice and operation manuals.

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