



Australian Government

TLIL0002 Identify railway fundamentals

Release: 1

TLIL0002 Identify railway fundamentals

Modification History

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 identify railway fundamentals. This includes the track, trackside equipment, fixed structures, rail vehicles and rolling stock.

This unit is intended for railway network controllers entering the rail industry who will be required to work in a rail workplace.

Work is performed under limited supervision with general guidance on progress and outcomes. It involves discretion and judgement for self in developing plans to meet customer and railway network needs.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

L – Resource Management

Unit Sector

Rail sector.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

- 1 Identify track and structures terminology and features**

PERFORMANCE CRITERIA

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

- 1.1** Terminology is explained for track, trackside equipment and fixed structures

	1.2	Features of track, including geography, geometry and classes are explained
	1.3	Bridges and other infrastructure categories and their purpose are identified
	1.4	Other principal structure types and their purpose are identified
	1.5	Relevant stakeholders to whom structural faults and anomalies are reported, are identified
2	Identify electrical components	
	2.1	Principal of electrical components and their purpose are identified
	2.2	Methods of isolation, power sources and their purposes are identified in accordance with railway network asset owner and workplace procedures
	2.3	Electrical components ownership is identified for operational maintenance and repair requirements
3	Identify rail track vehicles and rolling stock	
	3.1	Types of trains and rolling stock are identified
	3.2	Types of machines used for track installation and maintenance are identified
	3.3	Types of rail track vehicles are identified
	3.4	Relevant stakeholders to whom rolling stock faults and anomalies are reported, are identified

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 is a new unit. No equivalent unit.

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 TLIL0002 Identify railway 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:

- explaining job hazards and required actions to minimise, control or eliminate identified hazards
- explaining track terminology, trackside equipment and fixed structures
- identifying electrical components
- identifying railway network asset owner and workplace procedures
- identifying types of rolling stock and track vehicles
- interpreting and following operational instructions.

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:

- electrical components, including overhead powerline, if applicable
- fundamentals of track layout and geometry
- fundamentals of track structures and equipment
- procedures for fault reporting
- relevant work health and safety (WHS)/occupational health and safety (OHS), and environmental procedures
- standard railway terminology
- types of rail track vehicles, trains and rolling stock.

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 rail network 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 assess to:

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

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