



Australian Government

TLIB3118 Apply awareness of railway fundamentals

Release: 2

TLIB3118 Apply awareness of railway 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 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 develop an awareness of railway fundamentals. This includes the track, trackside equipment, fixed structures, rail vehicles and rolling stock.

This unit is intended for people entering the rail industry who will be required to enter and work in the rail corridor.

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.

- 1 Identify track and structures terminology and**

PERFORMANCE CRITERIA

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

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

features	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 overhead and/or electrical components	2.1	Principal overhead and/or other electrical components and their purpose are identified
	2.2	Power sources are identified
	2.3	Methods of isolation and their purpose are identified in accordance with organisational procedures
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 unit replaces and is equivalent to TLIB3118A Apply awareness of railway 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 TLIB3118 Apply awareness of 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:

- communicating effectively with others
- identifying job hazards and required action to minimise, control or eliminate identified hazards
- 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
- fundamentals of track layout and geometry
- fundamentals of track structures and equipment
- procedures for fault reporting
- relevant communications systems and procedures
- relevant safety, work health and safety (WHS)/occupational health and safety (OHS), and environmental procedures and regulations
- 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 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:

- 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, equipment and personal protective equipment (PPE) currently used in industry.

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