



Australian Government

TLI27121 Certificate II in Rail Infrastructure

Release 1

TLI27121 Certificate II in Rail Infrastructure

Modification History

Release 1. This is the first release of this qualification in the TLI Transport and Logistics Training Package.

Qualification Description

This is a general qualification for a person engaged in basic operations within the rail infrastructure environment. It involves undertaking a range of tasks involving known routines and procedures and taking some responsibility for the quality of work outcomes.

Job roles

Job roles and titles vary across different sectors. Possible job titles relevant to this qualification include:

Rail Infrastructure – Track Work

- track worker
- track installer
- track maintainer

Rail Infrastructure – Structures

- structures maintainer

Rail Infrastructure – Track Surfacing

- plant operator
- mobile plant operator
- way gang driver

Rail Infrastructure – Tram or Light Rail Infrastructure

- tram infrastructure track worker level 1–3
- light rail track worker.

Please note: RTO to insert on the testamur, the specialist elective unit group selected from the group choice below.

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

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

A total of **16 units of competency** comprising:

- 6 core units listed below, **plus**
- all units within one of the specialist elective unit groups (job roles) from Group A, Group B, Group C or Group D listed below, **plus**
- 3 general elective units from Group E listed below if selecting Group A or Group C, **or**
- 4 general elective units from Group E listed below if selecting Group B, **or**
- 6 general elective units from Group E listed below if selecting Group D.

Up to **2 general elective units** may be selected from any relevant nationally endorsed Training Package. The general elective units must contribute to the vocational outcomes of the qualification.

Where imported units are selected, care must be taken to ensure that all prerequisite units specified are complied with.

Core units

TLIB0012	Maintain and use hand tools
TLID0020	Shift materials safely using manual handling methods
TLIE1003	Participate in basic workplace communication
TLIF0025	Follow work health and safety procedures
TLIF2010	Apply fatigue management strategies
TLIU2008	Apply environmental procedures to rail infrastructure

Specialist elective units

Select all units from one of the following specialist elective groups:

Group A: Track Work

Group B: Structures

Group C: Track Surfacing

Group D: Tram or Light Rail Infrastructure.

Group A: Track Work

TLIB2085	Apply track fundamentals
TLIB2092	Operate minor mechanical equipment
TLIF0020	Safely access the rail corridor
TLIS2030	Carry out track ballasting

TLIS2031	Install railway sleepers
TLIS2034	Install and repair rail fastening systems
TLIS2044	Carry out rail installation

Group B: Structures

RIICCM201E	Carry out measurements and calculations
RIICCM203E	Read and interpret plans and job specifications
TLIB2084	Carry out routine maintenance of structures
TLIB2086	Apply awareness of structures fundamentals
TLIB2092	Operate minor mechanical equipment
TLIF0020	Safely access the rail corridor

Group C: Track Surfacing

TLIB1093	Clean equipment and restore worksite
TLIB2001	Check and assess operational capabilities of equipment
TLIB2085	Apply track fundamentals
TLIB2091	Measure and record track geometry
TLIF0020	Safely access the rail corridor
TLIS2030	Carry out track ballasting
TLIC0010	Propel and operate light on-track equipment

OR

TLIC2058	Travel medium or heavy self-propelled on-track equipment
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Group D: Tram or Light Rail Infrastructure

MEM12023	Perform engineering measurements └ MEM13015 Work safely and effectively in manufacturing and engineering └ MEM16006 Organise and communicate information
RIIWHS205E	Control traffic with stop-slow bat
TLIB2092	Operate minor mechanical equipment

TLIB2125 Apply awareness of tram or light rail track fundamentals

Group E: General elective units

- CPCCCM2007 Use explosive power tools
└ CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
- CPCCCM2008 Erect and dismantle restricted height scaffolding
└ CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
- CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
- RIICCM205F Carry out manual excavation
- RIICCM207E Spread and compact materials manually
- RIICCM208E Carry out basic levelling
- RIICCM209E Carry out concrete work
- RIIHAN301E Operate elevating work platform
- RIIMPO317F Conduct roller operations
- RIIMPO318F Conduct civil construction skid steer loader operations
- RIIMPO319E Conduct backhoe/loader operations
- RIIMPO320F Conduct civil construction excavator operations
- RIIMPO321F Conduct civil construction wheeled front end loader operations
- RIIMPO322E Conduct civil construction tracked front end loader operations
- RIIMPO326E Conduct water vehicle operations
- RIIWHS204E Work safely at heights
- RIIWHS205E Control traffic with stop-slow bat
- RIIWHS302E Implement traffic management plans
- TLIB1093 Clean equipment and restore worksite
- TLIB2034 Maintain poles and associated hardware
- TLIB2091 Measure and record track geometry

TLIB2097	Install and maintain guard rails
TLIB2121	Maintain rail joints
TLIC3045	Operate road/rail vehicle
TLIF0008	Apply safety critical communications in the rail environment
TLIF0015	Recognise the impact of human capabilities/limitations on human performance in a rail environment
TLIF2062	Apply awareness of safeworking rules and regulations
TLIG0003	Work effectively with others in a team
TLIK2010	Use infotechnology devices in the workplace
TLIS0002	Install and maintain surface track drainage
TLIS2004	Install and maintain rail bonding systems
TLIS2020	Install overhead wiring structure
TLIS2033	Install and repair temporary track supports
TLIS2034	Install and repair rail fastening systems
TLIS2035	Install and repair fences and gates
TLIW0001	Apply rail grinding fundamentals
TLIW0006	Heat and cut materials using oxy-LPG equipment for the rail industry
TLIW0007	Operate under track protection rules
TLIW2028	Identify the principles of ballast cleaning operations
TLIW2029	Identify the principles of ballast regulator operations
TLIW2030	Identify the principles of dynamic track stabiliser operations
TLIW2031	Identify the principles of self-propelled rail grinder operations
TLIW2032	Identify the principles of tamping machine operations
TLIW2033	Identify the principles of mechanised track laying operations
TLIW2038	Place and remove temporary speed restriction equipment

Qualification Mapping Information

This qualification replaces and is equivalent to TLI27120 Certificate II in Rail Infrastructure.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>