



Australian Government

TLI32515 Certificate III in Rail Infrastructure

Release 1

TLI32515 Certificate III 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 the rail infrastructure environment who performs tasks involving a broad range of skilled applications in a wide variety of contexts. It may involve application of some discretion and judgement in selecting equipment, services or contingency measures. It may also include responsibility for coordinating the work of others.

Job roles

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

Rail Infrastructure – Track Maintenance

- Senior track maintainer
- Ganger

Rail Infrastructure – Track Construction

- Senior track installer
- Ganger

Rail Infrastructure – Turnout Construction

- Specialist track installer
- Ganger

Rail Infrastructure – Track Welding

- Track welder

Rail Infrastructure – Track Examination

- Track examiner

Rail Infrastructure – Rail Testing

- Rail tester

Rail Infrastructure – Timber/Composite Turnout Construction

- Turnout builder
- Points and crossings builder

Rail Infrastructure – Concrete/Steel Turnout Construction

- Turnout builder
- Points and crossings builder

Rail Infrastructure – Track Drainage Maintenance

- Track drainage maintainer.

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

The entry requirement for this qualification is TLI21315 Certificate II in Rail Infrastructure (Track Work) or relevant industry experience gained by working in the rail infrastructure environment.

Packaging Rules

A total of **11 units of competency** comprising:

5 core units listed below plus

All units within one of the **specialist elective unit groups** (job roles) listed below **plus**

A **minimum of 2 general elective units** and a **maximum of 4 general elective units** from the **general elective units** listed below (depending on the specialist elective group or job role selected).

Up to **2 of the general electives 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

RIICCM201D	Carry out measurements and calculations
TLIE2007	Use communications systems
TLIE2029	Conduct workplace information briefings
TLIF3003	Implement and monitor work health and safety procedures
TLIJ3002	Apply quality systems

Specialist elective units

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

- Group A: Track Maintenance
- Group B: Track Construction
- Group C: Turnout Construction
- Group D: Track Welding
- Group E: Track Examination
- Group F: Rail Testing
- Group G: Timber/Composite Turnout Construction
- Group H: Concrete/Steel Turnout Construction
- Group I: Track Drainage Maintenance.

Group A: Track Maintenance

RIICCM203D	Read and interpret plans and job specifications
TLIB3094	Check and repair track geometry
TLIB3095	Check and repair points and crossings
TLIS3026	Implement track maintenance and construction

Group B: Track Construction

RIICCM203D	Read and interpret plans and job specifications
TLIB3094	Check and repair track geometry
TLIS3026	Implement track maintenance and construction

Group C: Turnout Construction

RIICCM203D	Read and interpret plans and job specifications
TLIS3026	Implement track maintenance and construction
TLIS3045	Install turnouts

Group D: Track Welding

RIICCM203D	Read and interpret plans and job specifications
TLIW2012	Grind rails
TLIW3015	Weld rail using aluminothermic welding process
TLIW3035	Heat and cut materials using oxy-LPG equipment for the rail industry

Group E: Track Examination

TLIB3099 Examine track infrastructure

TLIB3100 Visually inspect track infrastructure

Group F: Rail Testing

TLIS3010 Test rail using ultrasonic equipment

TLIS3011 Test rail using nondestructive testing equipment

Group G: Timber/Composite Turnout Construction

RIICCM203D Read and interpret plans and job specifications

TLIS3041 Construct timber or composite points and crossings

Group H: Concrete/Steel Turnout Construction

RIICCM203D Read and interpret plans and job specifications

TLIS3040 Construct concrete or steel points and crossings

Group I: Track Drainage Maintenance

RIICCM203D Read and interpret plans and job specifications

TLIS2027 Install and maintain surface track drainage

General elective units

AHCARB202A Fell small trees

AHCARB205A Operate and maintain chainsaws

NWP227B Control vegetation on a site

RIIRIS401D Apply site risk management system

TLIB2091 Measure and record track geometry

TLIB2097 Install and maintain guard rails

TLIB3040 Inspect poles and associated hardware

TLIB3099 Examine track infrastructure

TLIB3102 Adjust rail

TLIB4071 Install and maintain pole mounted switches and transformers

TLIC2058 Travel medium or heavy self-propelled on-track equipment

TLIC3045	Operate road/rail vehicle
TLIE2008	Process workplace documentation
TLIF2006	Apply accident-emergency procedures
TLIF3058	Apply safeworking rules and regulations to rail functions
TLIF3089	Implement fatigue management policies and procedures for rail infrastructure
TLIG1001	Work effectively with others
TLIG3002	Lead a work team or group
TLII1002	Apply customer service skills
TLIS2012	Install and service rail lubrication equipment
TLIS2027	Install and maintain surface track drainage
TLIS2033	Install and repair temporary track supports
TLIS2035	Install and repair fences and gates
TLIS3025	Implement ballast unloading
TLIS3026	Implement track maintenance and construction
TLIS3037	Install and repair rail earthworks
TLIU4001	Implement and monitor environmental protection policies and procedures
TLIW3013	Grind switches and crossings
TLIW3016	Weld rail using flashbutt welding process
TLIW3027	Operate minor track equipment

Qualification Mapping Information

This qualification replaces and is equivalent to TLI32511 Certificate III in Rail Infrastructure.

Links

TLI Transport and Logistics Training Package Companion Volume Implementation Guide at:
- <http://tlisc.org.au/training-packages/rail-training/>