



Australian Government

TLI21311 Certificate II in Rail Infrastructure

Release 4

TLI21311 Certificate II in Rail Infrastructure

Modification History

Release 3. This is the third release of this qualification in TLI10 Transport and Logistics Training Package Version 4.0.

Imported units updated.

Release 3 is equivalent to previous release.

Description

Please note: RTO to insert unit group selected from the group choice below on the testamur

Rationale:

This is a general qualification for a person engaged in basic operations within the rail infrastructure environment 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.
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Pathways Information

Not Applicable.

Licensing/Regulatory Information

Not Applicable.

Entry Requirements

Not Applicable.

Employability Skills Summary

Employability Skills Summary for TLI21311 Certificate II in Rail Infrastructure

The following table contains a summary of the employability skills as identified by the Transport and Logistics Industry for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that may vary depending on packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • Use communication systems and procedures used in construction and/or maintenance of rail infrastructure • Read and follow relevant, instructions, manuals, notices and signs applicable to their role within the construction and/or maintenance of rail infrastructure • Speak clearly and directly on matters related to their role within the construction and/or maintenance of rail infrastructure • Complete documents as part of duties, including completion of relevant forms • Recognise and interpret non-verbal signs, signals and behaviour • Use relevant communication equipment.
Teamwork	<ul style="list-style-type: none"> • Participate in the resolution of any interpersonal conflicts that may arise during construction and/or maintenance of rail infrastructure • Avoid and prevent the harassment of others in the workplace • Collaborate with others in the course of construction and/or maintenance of rail infrastructure • Work with persons of different ages, gender, race, religion, political persuasion, etc.
Problem solving	<ul style="list-style-type: none"> • Identify and solve or report problems arising in the course of construction and/or maintenance of rail infrastructure • Recognise problems that may occur in the course of construction and/or maintenance of rail infrastructure and take appropriate action to report or resolve the problems within limits of responsibility • Recognise hazards and risks in a range of rail situations and take appropriate precautions.
Initiative and enterprise	<ul style="list-style-type: none"> • Respond appropriately to any changes in equipment, standard operating procedures and the working environment.
Planning and	<ul style="list-style-type: none"> • Follow and apply operational and emergency plans, systems and procedures

- organising**
 - Comply with applicable rail and safety regulations and codes of practice
 - Follow and apply workplace security and safety management systems and safeworking requirements
 - Collect and interpret information needed in the course of the construction and/or maintenance of rail infrastructure within limits of responsibility
 - Manage time in the course of construction and/or maintenance of rail infrastructure.
- Self management**
 - Interpret and apply applicable instructions and procedures
 - Follow work plans and schedules
 - Check own work performance.
- Learning**
 - Participate in updating of own knowledge and skills required for rail activities, in response to any changes in the processes and equipment used in the construction and/or maintenance of rail infrastructure.
- Technology**
 - Operate equipment and tools required during the construction and/or maintenance of rail infrastructure
 - Follow and apply operational and servicing instructions for equipment used during the construction and/or maintenance of rail infrastructure
 - Follow and apply the applicable safeworking requirements and work health and safety (WHS)/occupational health and safety (OHS) procedures when using rail equipment and facilities.

Packaging Rules

Requirements for achievement of the qualification

A successful assessment outcome for a total of **16 units** of competency (depending on the group) comprising:

- **8 core units** listed below

plus

- **all units** from **one specialist elective** group listed below: A, B or C

plus

- **2 elective units** from the **general elective units** listed below **if selecting Group A or C or 3 if selecting Group B** or, all of which may be drawn with appropriate contextualisation from any currently endorsed national Training Package or accredited course, provided that the units contribute to the vocational outcome of the qualification

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

Core Units

Field	Unit	
B	Equipment Checking and Maintenance	TLIB1028A Maintain and use hand tools
D	Load Handling	TLID1001A Shift materials safely using manual handling methods
E	Communication and Calculation	TLIE1003A Participate in basic workplace communication
F	Safety Management	TLIF1001A Follow occupational health and safety procedures
		TLIF2010A Apply fatigue management strategies
		TLIF2080C Safely access the rail corridor

U	Environment	TLIU2008A	Apply environmental procedures to rail infrastructure
W	Equipment and Systems Operations	TLIW2001A	Operate under track protection rules

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 A: Track Work

Field		Unit	
B	Equipment Checking and Maintenance	TLIB2085A	Apply track fundamentals
		TLIB2092A	Operate minor mechanical equipment
S	Construction and Installation	TLIS2030A	Carry out track ballasting
		TLIS2031A	Install railway sleepers
		TLIS2034A	Install and repair rail fastening systems
		TLIS2044A	Carry out rail installation

Group B: Structures

Field		Unit	
B	Equipment Checking and Maintenance	TLIB2084A	Carry out routine maintenance of structures
		TLIB2086A	Apply awareness of structures fundamentals
		TLIB2092A	Operate minor mechanical equipment
E	Communication and Calculation	RIICCM201A	Carry out measurements and calculations
		RIICCM203A	Read and interpret plans and specifications

Group C: Track Surfacing

Field	Unit	
B	Equipment Checking and Maintenance	TLIB1093A Clean equipment and restore worksite
		TLIB2001A Check and assess operational capabilities of equipment
		TLIB2085A Apply track fundamentals
		TLIB2091A Measure and record track geometry
C	Vehicle Operation	TLIC2058A Travel medium or heavy self-propelled on-track equipment
		OR
		TLIC2059A Propel and operate light on-track equipment
S	Construction and Installation	TLIS2030A Carry out track ballasting

General Elective Units

Field	Unit	
B	Equipment Checking and Maintenance	TLIB1093A Clean equipment and restore worksite
		TLIB2121B Maintain rail joints
		TLIB2034A Maintain poles and associated hardware
		TLIB2091A Measure and record track geometry
		TLIB2097A Install and maintain guard rails
C	Vehicle Operation	RIIMPO317A Conduct roller operations
		RIIMPO318B Conduct skid steer loader operations
		RIIMPO319A Conduct backhoe/loader operations
		RIIMPO320B Conduct civil construction excavator operations
		RIIMPO321B Conduct civil construction wheeled front end loader operations

		RIIMPO322A	Conduct civil construction tracked front end loader operations
		RIIMPO326A	Conduct civil construction water cart operations
		TLIC3045A	Operate road/rail vehicle
F	Safety Management	RIIOHS302A	Implement traffic management plan
		RIIOHS204A	Work safely at heights
		RIIOHS205A	Control traffic with a stop-slow bat
		TLIF2062A	Apply awareness of safeworking rules and regulations
G	Teamwork	TLIG1001A	Work effectively with others
K	Technology	TLIK2010A	Use infotechnology devices in the workplace
S	Construction and Installation	CPCCCM2007B	Use explosive power tools
		CPCCCM2008B	Erect and dismantle restricted height scaffolding
		RIICCM205A	Carry out manual excavation
		RIICCM207A	Spread and compact materials manually
		RIICCM208A	Carry out basic levelling
		RIICCM209A	Carry out concrete work
		RIIHAN301B	Operate elevating work platform
		TLIS2004A	Install and maintain rail bonding systems
		TLIS2020A	Install overhead wiring structure
		TLIS2027A	Install and maintain surface track drainage
		TLIS2033A	Install and repair temporary track supports
		TLIS2034A	Install and repair rail fastening systems
		TLIS2035A	Install and repair fences and gates

W	Equipment and Systems Operations	TLIW3035A	Heat and cut materials using oxy-LPG equipment for the rail industry
		TLIW2028A	Identify the principles of ballast cleaning operations
		TLIW2029A	Identify the principles of ballast regulator operations
		TLIW2030A	Identify the principles of dynamic track stabiliser operations
		TLIW2031A	Identify the principles of self-propelled rail grinder operations
		TLIW2032A	Identify the principles of tamping machine operations
		TLIW2033A	Identify the principles of mechanised track laying operations
		TLIW2038A	Place and remove temporary speed restriction equipment