



**Australian Government**

# **TLI42311 Certificate IV in Rail Infrastructure**

**Release 2**

## TLI42311 Certificate IV in Rail Infrastructure

### Modification History

New qualification.

### Description

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

This is a qualification for a person engaged in the provision of infrastructure construction and/or maintenance activities on rail networks. The job entails the performance of a broad range of skilled applications, including high-level decision making process, evaluating and analysing current practices, developing new criteria and procedures for performing current practices, and providing leadership and guidance to others in the application of the skills and knowledge.

**Job roles:**

This qualification is suitable for a variety of job roles in the fields of:

**Rail Track Working, Rail Track Surfacing or Rail Structures**

Job roles and titles vary across different sectors. Possible job titles relevant to the listed fields include:

- Special ganger
- Leading hand
- Team leader
- Work group leader
- Supervisor
- Possession officer

**Track Protection**

Possible job titles relevant to this field include:

- Principal protection officer (PPO)
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### Pathways Information

Not applicable.

### Licensing/Regulatory Information

Not applicable.

## Entry Requirements

The entry requirement for this qualification is successful completion of one of the following:

- TLI31811 Certificate III in Rail Track Surfacing
- TLI31911 Certificate III in Mechanical Rail Signalling
- TLI32111 Certificate III in Rail Structures
- TLI32511 Certificate III in Rail Infrastructure
- TLI32711 Certificate III in Track Protection
- relevant industry experience gained by working in the rail infrastructure environment.
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## Employability Skills Summary

### Employability Skills Summary for TLI42311 Certificate IV in Rail Infrastructure

The following table contains a summary of the employability skills as identified by the Transport and Logistics Industry for this qualification. The 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.

<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
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<b>Communication</b>	<ul style="list-style-type: none"> <li>• Establish and implement communication systems and procedures required for construction and/or maintenance operations on rail infrastructure</li> <li>• Listen to and interpret verbal information related to construction and/or maintenance operations on rail infrastructure</li> <li>• Read and interpret relevant regulations, instructions, signs and labels applicable to construction and/or maintenance operations on rail infrastructure</li> <li>• Speak clearly and directly on diverse and complex matters related to construction and/or maintenance operations on rail infrastructure</li> <li>• Write documents as part of duties, including completing relevant forms, maintenance schedules, and accident and incident reports</li> <li>• Negotiate complex issues with others in the course of construction and/or maintenance operations on rail infrastructure</li> <li>• Recognise and interpret non-verbal signs, signals and behaviour</li> <li>• Use relevant communication equipment</li> </ul>
<b>Teamwork</b>	<ul style="list-style-type: none"> <li>• Provide leadership to rail operations personnel</li> <li>• Motivate others in the workplace</li> <li>• Collaborate with others in the course of construction and/or maintenance operations on rail infrastructure</li> <li>• Manage the resolution of interpersonal conflicts that may arise when involved in the construction and/or maintenance operations on rail infrastructure</li> </ul>

- Manage the avoidance and prevention of harassment of others in the workplace
- Manage persons of different ages, gender, race, religion, political persuasion, etc.
- Problem solving**
  - Identify and solve or report complex problems arising in the course of construction and/or maintenance operations on rail infrastructure
  - Monitor and anticipate problems that may occur in the course of construction and/or maintenance operations on rail infrastructure, including hazards and risks, and take appropriate action to report or resolve them within limits of responsibility
  - Manage the control of hazards and risks in a range of complex and diverse situations that may arise during construction and/or maintenance operations on rail infrastructure
  - Use mathematics to solve problems, such as various calculations related to a wide range of rail activities
- Initiative and enterprise**
  - Modify activities dependent on differing situations and contingencies during construction and/or maintenance operations on rail infrastructure
  - Take appropriate initiative in a diverse range of operational situations
  - Manage the response to changes in equipment, standard operating procedures and the work environment
- Planning and organising**
  - Implement and monitor operational and emergency plans, systems and procedures
  - Implement and monitor systems and procedures for maintaining compliance with regulations and codes of practice
  - Monitor the implementation of the rail security and safety management systems, where applicable
  - Monitor and evaluate operational performance and compliance during construction and/or maintenance operations on rail infrastructure
  - Collect and interpret information needed during construction and/or maintenance operations on rail infrastructure
  - Organise and plan own activities
  - Manage time and priorities in the course of construction and/or maintenance operations on rail infrastructure
- Self management**
  - Interpret and apply relevant regulations and instructions
  - Establish and follow own work plans and schedules
  - Evaluate and monitor own work performance
- Learning**
  - Organise learning and assessment activities for others in the workplace
  - Manage adaptation of others in the workplace to changes in rail systems, equipment and procedures and the workplace environment
  - Instruct, coach or mentor others in the workplace as required
  - Contribute to the assessment of competence of others in the workplace
  - Assist in creating a learning environment in the workplace
  - Adapt own competence in response to changes in rail operations
  - Update own knowledge and skills required for network control activities

**Technology**

- Use complex equipment and systems required during construction and/or maintenance operations on rail infrastructure
- Implement and monitor operational and maintenance procedures and systems for equipment used during construction and/or maintenance operations on rail infrastructure
- Implement and monitor the application of OH&S procedures when using rail equipment and facilities

## Packaging Rules

### Requirements for completion of the qualification:

A successful assessment outcome for a total of **13 units** of competency comprising:

**8 core units** listed below

plus

- **3 specialist elective units** in Group A or Group B below

plus

- **2 general elective units** from the elective units listed below, or drawn with appropriate contextualisation from any currently endorsed national Training Package or accredited course, provided that the unit contributes to the vocational outcome of the qualification.

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

### Core units:

Field	Unit
<b>F Safety Management</b>	TLIF4088A Implement and coordinate rail safety and OH&S risk-control strategies
	TLIF3089A Implement fatigue management policies and procedures for rail infrastructure
<b>G Teamwork</b>	TLIG4006A Facilitate work teams
<b>J Quality</b>	TLIJ4009A Implement and monitor quality assurance systems
<b>L Resource Management</b>	BSBMGT401A Show leadership in the workplace
	BSBPMG401A Apply project scope management techniques
	TLIL4005A Apply conflict/grievance resolution strategies
	TLIL4076A Coordinate resources

### Specialist elective units:

Select 3 units from one of the following specialist elective groups:

- Group A: Rail Track Working, Rail Track Surfacing or Rail Structures
- Group B: Track Protection

Group A Rail Track Working, Rail Track Surfacing or Rail Structures	
Field	Unit
<b>F Safety Management</b>	BSBRSK401A Identify risk and apply risk management processes

		TLIF2006A Apply accident-emergency procedures
<b>L</b>	<b>Resource Management</b>	BSBMGT403A Implement continuous improvement TLIL4073A Apply asset management system

### Group B Track Protection

The selection must include TLIL4068A Plan and coordinate track protection for multiple work groups

Field	Unit
<b>F</b>	<b>Safety Management</b>
	BSBRSK401A Identify risk and apply risk management processes TLIF2006A Apply accident-emergency procedures
<b>L</b>	<b>Resource Management</b>
	BSBMGT403A Implement continuous improvement TLIL4069A Plan and coordinate protection for multiple worksites within the limits of a work on track authority

### General elective units:

Field	Unit
<b>B</b>	<b>Equipment Checking and Maintenance</b>
	TLIB4042A Conduct inspection of safeworking procedures and infrastructure
<b>D</b>	<b>Load Handling</b>
	TLID4030A Supervise mobile crane operations
<b>E</b>	<b>Communication and Calculation</b>
	BSBCMM401A Make a presentation
<b>G</b>	<b>Teamwork</b>
	BSBADM502B Manage meetings RIIBEF402A Supervise on-site operations
<b>I</b>	<b>Customer Service</b>
	TLII4001A Coordinate quality customer service
<b>P</b>	<b>Administration</b>
	TLIP4001A Develop plans to meet customer and organisation needs

<b>ion</b>	<b>and Finance</b>	
<b>R</b>	<b>Contract</b>	TLIR4002A Source goods/services and evaluate contractors
<b>t</b>	<b>Procurement</b>	TLIR4008A Implement and supervise stocktaking procedures
		TLIR4009A Implement purchasing systems
<b>U</b>	<b>Environmen</b>	TLIU3011A Implement and monitor environmentally sustainable work practices
<b>t</b>		

## Custom Content Section

Not applicable.