



Australian Government

Department of Education, Employment and Workplace Relations

TLI32510 Certificate III in Rail Infrastructure

Release: 1

TLI32510 Certificate III in Rail Infrastructure

Modification History

Not Applicable

Description

Rationale:

This is a general qualification for persons engaged in the rail infrastructure environment who perform tasks involving a broad range of skilled applications applied in a wide variety of contexts, which 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.

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

Entry requirements:

The entry requirements for this qualification are TLI21310 Certificate II in Rail Infrastructure (Track Work) or equivalent vocational competency gained by working within the rail infrastructure environment.

The Certificate III in Rail Infrastructure qualification is aligned to the following defined groups:

Group A: Rail infrastructure - Track Maintenance

This includes but is not limited to the following job roles:

- Senior track maintainer
- Ganger

Group B: Rail infrastructure - Track Construction

This includes but is not limited to the following job roles:

- Senior track installer
- Ganger

Group C: Rail infrastructure - Turnout Construction

This includes but is not limited to the following job roles:

- Specialist track installer
- Special ganger

Group D: Rail infrastructure - Track Welding

This includes but is not limited to the following job role:

- Track welder

Group E: Rail infrastructure - Track Examination

This includes but is not limited to the following job role:

- Track examiner

Group F: Rail infrastructure - Rail Testing

This includes but is not limited to the following job role:

- Rail tester

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Employability Skills Summary

Employability Skills Summary for

TLI32510 Certificate III 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**

- Implement and monitor communication systems and procedures required for construction and/or maintenance operations on rail infrastructure
- Read and interpret relevant procedures, instructions, signs and labels applicable to the supervision of construction and/or maintenance operations on rail infrastructure
- Speak clearly and directly on matters related to construction and/or maintenance operations on rail infrastructure
- Listen to and interpret verbal information related to construction and/or maintenance operations on rail infrastructure
- Write/Complete basic documents as part of duties
- Negotiate issues with others in the course of construction and maintenance operations on rail infrastructure
- Recognise and interpret non-verbal signs, signals and behaviour
- Use relevant communication equipment.

Teamwork

- Work effectively with others in the course of construction and/or maintenance operations on rail infrastructure
- Provide leadership to team or workgroup
- Motivate others in the workplace
- Assist others in the workplace to achieve and maintain competence
- Assist in the resolution of any interpersonal conflicts that may arise during construction and/or maintenance operations on rail infrastructure
- Avoid and prevent the harassment of others in the workplace
- Work with persons of different ages, gender, race, religion, political persuasion, etc.

TLI32510 Certificate III in Rail Infrastructure (continued)**Employability Skill****Industry/enterprise requirements for this qualification include:**

Employability Skill	Industry/enterprise requirements for this qualification include:
Problem solving	<ul style="list-style-type: none">• Identify and solve or report 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 and take appropriate action to report or resolve the problems within limits of responsibility• Identify and control hazards and risks in a range of rail infrastructure situations and take appropriate precautions• Use mathematics to solve various calculations related to construction and/or maintenance operations on rail infrastructure.
Initiative and enterprise	<ul style="list-style-type: none">• Modify activities dependent on differing rail infrastructure situations and contingencies• Take appropriate initiatives in a range of operational situations such as those above• Respond appropriately to any changes in equipment, standard operating procedures and the working environment.
Planning and organising	<ul style="list-style-type: none">• Follow and apply operational and emergency plans, systems and procedures• Implement the workplace security and safety management systems• Monitor and evaluate operational performance and compliance• Collect and interpret information needed in the course of construction and/or maintenance operations on rail infrastructure• Organise and plan work activities• Manage time and priorities in the course of construction and/or maintenance operations on rail infrastructure.
Self management	<ul style="list-style-type: none">• Interpret and apply procedures and instructions• Establish and follow own work plans and schedules• Evaluate own work performance.

TLI32510 Certificate III in Rail Infrastructure (continued)

Employability Skill	Industry/enterprise requirements for this qualification include:
Learning	<ul style="list-style-type: none">• Assist others to adapt to any changes in workplace systems, equipment, procedures and the workplace operating environment

Employability Skill**Industry/enterprise requirements for this qualification include:**

- Assist in the instruction, coaching or mentoring of others in the workplace
- Contribute to the assessment of the competence of others in the workplace
- Participate in the updating of own knowledge and skills required for rail infrastructure construction and/or maintenance activities.

Technology

- Use equipment and materials required during construction and/or maintenance operations on rail infrastructure
- Follow and apply operational and servicing instructions for equipment used during construction and/or maintenance operations on rail infrastructure
- Follow and apply OH&S procedures when using and servicing rail equipment and facilities.

Packaging Rules

Requirements for completion of the qualification:

A successful assessment outcome for a total of **11 to 13 units** of competency comprising:

- **5 core units** as listed below:

plus

- **all units** within one of the selected groups (job roles) as listed below

plus

- **4 elective units** which may be taken from the **elective units** listed below, or may include **up to 3 units** drawn with appropriate contextualisation from any currently endorsed national Training Package or accredited course.

Where the choice of a unit from another currently endorsed national Training Package or accredited course is made, this unit must contribute towards the vocational outcome of the qualification.

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

Core units:

Field	Unit
E Communication and Calculation	TLIE2001A Present routine workplace information
	TLIE2007A Use communication systems
F Safety Management	TLIF3003A Implement and monitor occupational health and safety procedures
J Quality	TLIJ3002A Apply quality systems
U Environment	TLIU4001A Implement and monitor environmental protection policies and procedures

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Select one industry group:

Group A: Track Maintenance
 Group B: Track Construction
 Group C: Turnout Construction
 Group D: Track Welding
 Group E: Track Examination
 Group G: Rail Testing

Group A (Track Maintenance)

Field	Unit
B Equipment Checking and Maintenance	TLIB3094A Check and repair track geometry
	TLIB3095A Check and repair points and crossings
S Construction and Installation	TLIS3026A Implement track maintenance and construction
	TLIS2027A Install and maintain surface track drainage

Group B (Track Construction)

Field	Unit
B Equipment Checking and Maintenance	TLIB3094A Check and repair track geometry
S Construction and Installation	TLIS3026A Implement track maintenance and construction
	TLIS2027A Install and maintain surface track drainage

Group C (Turnout Construction)

Field	Unit
B Equipment Checking and Maintenance	TLIB3094A Check and repair track geometry
	TLIB3095A Check and repair points and crossings
S Construction and Installation	TLIS3026A Implement track maintenance and construction
	TLIS3038A Install points and crossings

TLI32510 Certificate III in Rail Infrastructure (continued)**Group D (Track Welding)**

Field	Unit
B Equipment Checking and Maintenance	TLIB3102A Adjust rail

Field	Unit
W Equipment and Systems Operations	CPCCSF2003A Cut&bend materials using oxy/LPG equipment
	TLIW2012A Grind rails
	TLIW3015A Weld rail using aluminothermic welding process

Group E (Track Examination)

Field	Unit
B Equipment Checking and Maintenance	TLIB3094A Check and repair track geometry
	TLIB3099A Examine track infrastructure
	TLIB3100A Visually inspect track infrastructure

Group F (Rail Testing)

Field	Unit
S Construction and Installation	TLIS3010A Test rail using ultrasonic equipment
	TLIS3011A Test rail using non-destructive testing equipment

TLI32510 Certificate III in Rail Infrastructure (continued)**Elective units:**

Field	Unit
B Equipment Checking and Maintenance	TLIB3040A Inspect poles and associated hardware
	TLIB2097A Install and maintain guard rails
	TLIB3099A Examine track infrastructure
	TLIB3102A Adjust rail
C Vehicle Operation	TLIC2041A Operate self-propelled equipment on track
E Communication and Calculation	TLIE2008A Process workplace documentation

Field	Unit
F Safety Management	TLIF3058A Apply safeworking rules and regulations to rail functions
	TLIF2006A Apply accident/emergency procedures
	TLIF3063A Administer the implementation of fatigue management strategies
G Teamwork	TLIG1001A Work effectively with others
I Customer Service	TLII1002A Apply customer service skills
S Construction and Installation	TLIS2012A Install and service rail lubrication equipment
	TLIS3025A Implement ballast unloading
	TLIS3026A Implement track maintenance and construction
	TLIS2027A Install and maintain surface track drainage
	TLIS2033A Install and repair temporary track supports
	TLIS2035A Install and repair fences and gates
W Equipment and Systems Operations	TLIS3037A Install and repair rail earthworks
	TLIW3013A Grind switches and crossings