



Australian Government

Department of Education, Employment and Workplace Relations

TLI32110 Certificate III in Rail Structures

Release: 1

TLI32110 Certificate III in Rail Structures

Modification History

Not Applicable

Description

Rationale:

This is a general qualification for persons engaged in the rail infrastructure environment who perform tasks involving checking and repairing structures through a broad range of skilled applications applied in a wide variety of contexts. Activities 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 the listed groups (job role) include:

Steel/Concrete/Masonry Structures Maintenance

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

- Senior Structures Maintainer

Timber Structures Maintenance

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

- Senior Structures Maintainer
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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 (Structures) or equivalent vocational competency gained by working within the rail infrastructure structures environment.

TLI32110 Certificate III in Rail Structures (continued)

Employability Skills Summary

Employability Skills Summary for TLI32110 Certificate III in Rail Structures

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"> • Implement and monitor communication systems and procedures required for inspection and/or maintenance operations on rail structures • Read and interpret relevant procedures, instructions, signs and labels applicable to the supervision of inspection and/or maintenance operations on rail structures • Speak clearly and directly on matters related to inspection and/or maintenance operations on rail structures • Listen to and interpret verbal information related to inspection and/or maintenance operations on rail structures • Write/complete basic documents as part of duties • Negotiate issues with others in the course of inspection and maintenance operations on rail structures • Recognise and interpret non-verbal signs, signals and behaviour • Use relevant communication equipment.
Teamwork	<ul style="list-style-type: none"> • Work effectively with others in the course of inspection and/or maintenance operations on

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

rail structures

- 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 inspection and/or maintenance operations on rail structures
- Avoid and prevent the harassment of others in the workplace
- Work with persons of different ages, gender, race, religion, political persuasion, etc.

TLI32110 Certificate III in Rail Structures (continued)**Employability Skill****Industry/enterprise requirements for this qualification include:****Problem solving**

- Identify and solve or report problems arising in the course of inspection and/or maintenance operations on rail structures
- Monitor and anticipate problems that may occur in the course of inspection and/or maintenance operations on rail structures 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 inspection and/or maintenance operations on rail structures.

Initiative and enterprise

- 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

- Follow and apply operational and emergency plans, systems and procedures
- Implement the workplace security and safety management systems
- Monitor and evaluate operational performance and

Employability Skill	<p>Industry/enterprise requirements for this qualification include:</p> <ul style="list-style-type: none"> compliance • Collect and interpret information needed in the course of inspection and/or maintenance operations on rail structures • Organise and plan work activities • Manage time and priorities in the course of inspection and/or maintenance operations on rail structures.
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.

TLI32110 Certificate III in Rail Structures (continued)

Employability Skill	<p>Industry/enterprise requirements for this qualification include:</p>
Learning	<ul style="list-style-type: none"> • Assist others to adapt to any changes in workplace systems, equipment, procedures and the workplace operating environment • 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 structures inspection and/or maintenance activities.
Technology	<ul style="list-style-type: none"> • Use equipment and materials required during inspection and/or maintenance operations on rail structures • Follow and apply operational and servicing instructions for equipment used during inspection and/or maintenance operations on rail structures • 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 **13 to 15** units of competency comprising:

- **7 core** units as listed below

plus

- **all** units within one of the selected industry groups as listed below

plus

- **4 elective units** which should 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
S Construction and Installation	TLIS2013A Install minor structures
	TLIS3029A Implement structures maintenance and installation of minor structures
U Environment	TLIU4001A Implement and monitor environmental protection policies and procedures

TLI32110 Certificate III in Rail Structures (continued)

Select one industry group:

Group A: Steel/Concrete/Masonry Structures Maintenance

Group B: Timber Structures Maintenance

Group A

**TLI32110 Certificate III in Rail Structures
(Steel/Concrete/Masonry Structures Maintenance)**

Field	Unit
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Field	Unit
B Equipment Checking and Maintenance	TLIB2082A Repair steel structures
	TLIB2083A Maintain bridge bearings
	TLIB2096A Repair concrete/masonry structures
S Construction and Installation	CPCCPD3010A Apply protective paint coating systems

Group B
TLI32110 Certificate III in Rail Structures
(Timber Structures Maintenance)

Field	Unit
B Equipment Checking and Maintenance	TLIB2081A Repair timber structures
W Equipment and Systems Operations	CPCCSF2003A Cut&bend materials using oxy/LPG equipment

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Elective units:

Field	Unit
B Equipment Checking and Maintenance	TLIB2092A Operate minor mechanical equipment
	TLIB2097A Install and maintain guard rails
C Vehicle Operation	TLIC2041A Operate self-propelled equipment on track
E Communication and Calculation	TLIE2007A Use communication systems
	TLIE2008A Process workplace documentation
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

Field	Unit
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 TLIS2027A Install and maintain surface track drainage TLIS2028A Install and replace transoms TLIS2033A Install and repair temporary track supports TLIS2034A Install and repair rail fastening systems TLIS2035A Install and repair fences and gates TLIS3037A Install and repair rail earthworks
W Equipment and Systems Operations	CPCCSF2003A Cut&bend materials using oxy/LPG equipment MEM24001B Perform basic penetrant testing MEM24003B Perform basic magnetic particle testing