



Australian Government

Department of Education, Employment and Workplace Relations

TLI31911 Certificate III in Mechanical Rail Signalling

Release: 1

TLI31911 Certificate III in Mechanical Rail Signalling

Modification History

Changes to core and elective units. Packaging rules updated. Equivalent.

Description

Rationale:

This is a general qualification for a person engaged in the installation and maintenance of mechanical rail signalling equipment. It involves a broad range of skilled applications 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.

Job roles:

Job roles and titles vary across different sectors. A possible job title relevant to this qualification includes:

- Mechanical rail signaller.
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Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

The entry requirements for this qualification are the **8 core units** of competency from TLI21311 Certificate II in Rail Infrastructure listed below or relevant industry experience gained by working within the rail infrastructure environment.

Entry requirement 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 TLIF2080B 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

Employability Skills Summary

Employability Skills Summary for:

TLI31911 Certificate III in Mechanical Rail Signalling

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.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none">• Implement and monitor communication systems and procedures required when working on mechanical rail signalling• Read and interpret relevant regulations, instructions, signs and labels applicable to working on mechanical rail signalling• Speak clearly and directly on matters related to rail operations, in particular when working on mechanical rail signalling• Listen to and interpret verbal information related to working on mechanical rail signalling• Write documents as part of duties, including where applicable completion of relevant forms, timesheets, service logs and incident reports• Negotiate issues with others in the course of working on mechanical rail signalling• Recognise and interpret non-verbal signs, signals and behaviour• Use relevant communication equipment
Teamwork	<ul style="list-style-type: none">• Collaborate with others in the course of working on mechanical rail signalling• Provide leadership to other personnel in the workplace• Motivate others in the workplace• Assist others in the workplace to achieve and maintain competence• Assist in the resolution of interpersonal conflicts that may arise during work operations• Avoid and prevent the harassment of others in the workplace• 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 working on mechanical rail signalling• Monitor and anticipate problems that may occur in the course of working on mechanical rail signalling and take appropriate action to report or resolve them within limits of responsibility• Identify and control hazards and risks in a range of situations related to working on mechanical rail signalling and take appropriate precautions

	<ul style="list-style-type: none">• Use mathematics to solve various calculations related to working on mechanical rail signalling
Initiative and enterprise	<ul style="list-style-type: none">• Modify activities dependent on differing situations and contingencies• Take appropriate initiative in a range of operational situations• Respond appropriately to changes in equipment, standard operating procedures and the work environment
Planning and organising	<ul style="list-style-type: none">• Follow and apply operational and emergency plans, systems and procedures• Monitor systems and procedures for compliance with regulations and codes of practice• Implement workplace security and safety management systems• Monitor and evaluate operational performance and compliance• Collect and interpret information needed in the course of working on mechanical rail signalling• Manage time and priorities in the course of working on mechanical rail signalling
Self management	<ul style="list-style-type: none">• Interpret and apply regulations and instructions• Evaluate own work performance
Learning	<ul style="list-style-type: none">• Contribute to learning and assessment activities in the workplace• Assist others to adapt to 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 competence of others in the workplace• Assist in the creation of a learning environment in the rail industry workplace• Adapt own competence in response to changes in the processes and equipment used in train driving• Update own knowledge and skills required for working on mechanical rail signalling
Technology	<ul style="list-style-type: none">• Use equipment and materials required when working on mechanical rail signalling• Follow and apply operational and servicing instructions for equipment used when working on mechanical rail signalling• Follow and apply 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 **18 units** of competency comprising:

- **12 core units** listed below

plus

- **6 elective units** from the elective units listed below, or up to 3 units 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 prerequisites specified in the unit are complied with.

Core units:

Field	Unit
B Equipment Checking and Maintenance	TLIB3046A Service and clean mechanical signalling equipment and infrastructure
	TLIB3047A Repair and adjust mechanical signalling equipment and infrastructure
	TLIB3048A Carry out off-site repair, overhaul and assembly of mechanical signalling equipment
	TLIB3053A Maintain mechanical signalling locking and interlocking devices
	TLIB3103A Install and maintain mechanical signalling locking and interlocking devices
	TLIB3120A Test mechanical signalling equipment and isolate faults
E Communication and Calculation	RIICCM201A Carry out measurements and calculations
	RIICCM203A Read and interpret plans and specifications
	TLIE2008A Process workplace documentation
F Safety Management	TLIF2062A Apply awareness of safeworking rules and regulations
K Technology	TLIK2010A Use infotechnology devices in the workplace
S Construction and Installation	TLIS3005A Install mechanical infrastructure for signalling

Elective units:

Field	Unit
A Handling Cargo/Stock	TLIA3039A Receive and store stock

B Equipment Checking and Maintenance	TLIB1093A Clean equipment and restore worksite
E Communication and Calculation	TLIE2007A Use communication systems TLIE2029A Conduct workplace information briefings
F Safety Management	TLIF2006A Apply accident-emergency procedures TLIF3013A Coordinate breakdowns and emergencies TLIF3058A Apply safeworking rules and regulations to rail functions RIIOHS204A Work safely at heights UETTDRRF02A Perform pole top rescue RIIOHS202A Enter and work in confined spaces
G Teamwork	TLIG1001A Work effectively with others TLIG3002A Lead a work team or group
I Customer Service	TLII1002A Apply customer service skills
M Training and Assessment	TAED301A Provide work skill instruction TAEASS401B Plan assessment activities and processes TAEASS402B Assess competence
S Construction and Installation	TLIS2004A Install and maintain rail bonding systems TLIS3023A Erect and mount structures and housings for signalling equipment
U Environment	NWP227B Control vegetation on a site
W Equipment and Systems Operations	TLIW3005A Perform direct burial of cables TLIW3035A Heat and cut materials using oxy-LPG equipment for the rail industry RIIOHS205A Control traffic with a stop-slow bat RIIHAN301A Operate elevating work platform