



Australian Government

TLI31913 Certificate III in Mechanical Rail Signalling

Release 1

TLI31913 Certificate III in Mechanical Rail Signalling

Modification History

Release 1 - This is the first release of this qualification in TLI10 Transport and Logistics Training Package Version 3.0.

This qualification is equivalent to TLI31911 Certificate III in Mechanical Rail Signalling. Changes to core and elective units. Packaging rules updated.

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 TLIF2010A TLIF2080B Follow occupational health and safety procedures Apply fatigue management strategies 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 TLI31913 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. 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 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
 - Use mathematics to solve various calculations related to working on mechanical rail signalling
 - 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
- Initiative and enterprise**
- Planning and organising**
- 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**
- Interpret and apply regulations and instructions
 - Evaluate own work performance
- Learning**
- 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 when working on mechanical rail signalling
 - Update own knowledge and skills required for working on mechanical rail signalling
- Technology**
- 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:

- **11 core units** listed below

plus

- **7 elective units** from the **general elective units** listed below. Alternatively, **up to 3 units** may be 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 | 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 |
| | | 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 |

General Elective Units

| Field | Unit |
|-------|------|
|-------|------|

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|----------|---|---|---|
| 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 TLIE2029A | Use communication systems Conduct workplace information briefings |
| F | Safety Management | TLIF2006A TLIF3013A TLIF3058A RIIOHS202A RIIOHS204A UETDRRF02 B | Apply accident-emergency procedures Coordinate breakdowns and emergencies Apply safeworking rules and regulations to rail functions Enter and work in confined spaces Work safely at heights Perform pole top rescue |
| G | Teamwork | TLIG1001A TLIG3002A | Work effectively with others Lead a work team or group |
| I | Customer Service | TLII1002A | Apply customer service skills |
| M | Training and Assessment | TAEASS401B TAEASS402B TAEDEL301A | Plan assessment activities and processes Assess competence Provide work skill instruction |
| S | Construction and Installation | TLIS2004A TLIS3023A | Install and maintain rail bonding systems Erect and mount structures and housings for signalling equipment |
| U | Environment | NWP227B | Control vegetation on a site |
| W | Equipment and Systems Operations | RIIHAN301B RIIOHS205A TLIW3035A | Operate elevating work platform Control traffic with stop-slow bat Heat and cut materials using oxy-LPG equipment for the rail industry |

Custom Content Section

Not applicable.