

TLI31920 Certificate III in Mechanical Rail Signalling

The *Certificate III in Mechanical Rail Signalling* is a general qualification for workers who install and maintain mechanical rail signalling equipment.

HRD offers this qualification as an assessment-only pathway.

The following is a SAMPLE qualification option that HRD is able to offer; there are other elective options available to you. Workplaces with specific requirements should consult www.training.gov.au to view qualification packaging rules. Alternatively, you can contact HRD to discuss your particular needs.

The *TLI31920 Certificate III in Mechanical Rail Signalling* qualification requires completion of 11 core units, plus a minimum of 7 general electives.

There are also entry requirements for this qualification. You must have completed the 7 core units from the *TLI27120 Certificate II in Rail Infrastructure* or demonstrate *relevant industry experience* gained by working in a rail infrastructure role before your enrolment can be accepted.

Core

TLIB3046 Service and clean mechanical signalling equipment and infrastructure	The skills and knowledge for cleaning and servicing mechanical signalling equipment/infrastructure, and checking/testing the operation and functionality of the equipment/infrastructure after cleaning are covered in this unit.
TLIB3047 Repair and adjust mechanical signalling equipment and infrastructure	Repair and adjust mechanical signalling equipment and infrastructure (excluding interlocking equipment), including diagnosing and correcting equipment faults, and testing and adjusting the equipment after repair.
TLIB3048 Carry out off-site repair, overhaul and assembly of mechanical signalling equipment	Carry out the off-site repair, overhaul and assembly of mechanical signalling equipment. You'll assess equipment condition, replace out-of-specification components, produce components where required, assemble components, and test and adjust equipment to ensure overall system integrity.
TLIB3053 Maintain mechanical signalling locking and interlocking devices	Maintaining mechanical signalling locking and interlocking devices includes diagnosing and correcting faults in the devices, and testing and adjusting the repaired equipment to meet workplace and manufacturers standards.
TLIB3120 Test mechanical signalling equipment and isolate faults	To test mechanical signalling equipment and isolate faults you will undertake preparation tasks, conduct testing and/or isolation of equipment, check equipment operation, and finalise the testing and/or isolation of the equipment in accordance with workplace procedures and relevant regulatory requirements.
TLIE2008 Process workplace documentation	Processing workplace documentation involves activities such as planning documentation to fulfil an identified purpose and completing the documentation according to requirements. Documentation may include forms, logs, diaries and basic hand-written or typed reports; also the entry of information into computer-based documents and forms.
TLIF2062 Apply awareness of safeworking rules and regulations	You will be required to demonstrate a basic awareness of applicable safeworking rules and regulations to work functions in the rail industry. This includes interpreting and applying safeworking rules and protocols; recognising and reporting unsafe situations; following safeworking instructions and procedures; and taking appropriate safety precautions.
TLIK2010 Use infotechnology devices in the workplace	Using infotechnology devices in the workplace includes identifying infotechnology equipment and systems; setting up equipment for use and shutting it down; and inputting, retrieving and presenting files/data in accordance with work requirements.

Certificate III in Mechanical Rail Signalling unit selections

TLIS3005 Install mechanical infrastructure for signalling	To install mechanical infrastructure for signalling in accordance with safeworking and regulatory requirements and workplace procedures you'll demonstrate: assembling components; installing the equipment and components to specifications; and testing and adjusting the equipment to workplace requirements.
RIICCM201D Carry out measurements and calculations	This unit covers carrying out measurements and calculations in the civil construction industry. It includes: planning and preparation; performing measurements and calculations; and estimating approximate quantities.
RIICCM203D Read and interpret plans and specifications	<i>Read and interpret plans and specifications</i> covers the reading and interpreting of plans and specifications in the civil construction industry. It includes: identifying types of drawings and their functions; recognising amendments and commonly used symbols and abbreviations; locating and identifying key features on a site plan; and reading and interpreting job specifications.

Electives

The following selections are recommendations by HRD based on common industry requirements. It is not a prescriptive list so persons with specific needs should consult www.training.gov.au for the full elective suite.

TLIA3039 Receive and store stock	This unit involves the skills and knowledge required to receive and store stock for a workplace. It specifically covers taking delivery of stock, storing the received stock, and rotating and maintaining stock according to relevant regulatory and workplace procedures.
TLIB1093 Clean equipment and restore worksite	Clean up plant, equipment and worksite according to safeworking and regulatory requirements and workplace procedures. Content includes planning and preparing work, arranging the clear up and disposal/reclamation of material, operating cleaning equipment and mobile plant, finalising the work and restoring the site.
TLIE2007 Use communication systems	<i>Use communication systems</i> includes identifying system features, operating a communication system effectively, using appropriate communication protocols when using a system, maintaining equipment, and completing documentation.
TLIE2029 Conduct workplace information briefings	To successfully complete his unit you'll demonstrate the skills and knowledge required to conduct workplace information briefings in line with organisational requirements by preparing and presenting routine workplace documents and delivering oral presentations.
TLIG3002 Lead a work team or group	The skill and knowledge requirements for lead a work team or group include: participating in team/group planning; managing and developing team/group performance; participating in and facilitating the work team/group in its achievement of workplace tasks; and documenting and reviewing work team/group performance.
TLIS2004 Install and maintain rail bonding systems	This unit covers installing and maintaining all types of temporary and permanent bonds and bonding cables used in the Australian rail system. This includes planning installation and maintenance, worksite preparation, installing and maintaining bonds and bonding cables, and conducting all required post-installation activities.
TLIS3023 Erect and mount structures and housings for signalling equipment	Erecting and mounting structures and housings for signalling equipment includes installing the foundations, assembling the components, and installing and mounting the structures and housings in accordance with specifications.
TLIS4007 Decommission mechanical signalling infrastructure and interlocking equipment from service*	To decommission mechanical signalling infrastructure equipment and interlocking equipment from service includes demonstrating disconnecting the mechanical/electromechanical equipment and components; modifying, testing and adjusting remaining equipment; and certifying and securing the operational mechanical equipment in accordance with workplace requirements.
*Although outside the Qualification listed elective bank, this unit is recommended by HRD.	