

Mechanical Rail Signalling Skills for electrical and non-electrical rail signalling and infrastructure employees

HRD Integrated Services technical training

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Mechanical rail signalling skills program content

Course code: HRD-MSS

Course cost

- Contact HRD for course cost

RPL-assessment-only pathway

- RPL interview
- Supporting evidence portfolio
- Practical demonstration of skills

Assessment format

- Assessment of competence is on a per-unit or unit cluster basis
- Available to individuals or groups of up to 6 persons
- Assessment requires skills demonstration and may ask for a theory test

Venue

- Rail Academy–Newport or agreed workplace location

What to bring

- Standard issue uniform, safety boots and Hi-Vis safety vest
- Hand tools/specialist tools
- Pen/notebook

Scheduled dates

Mechanical signalling skills assessment and gap-training is offered on an as-needed basis.

Mechanical rail signalling equipment remains a vital but diminishing part of the rail system. HRD provides skills recognition assessment and gap-training support in the skills needed to install, maintain, fault-find, repair and test mechanical signalling equipment.



Although it's gradually being replaced by new technology, there's still a call for the skills needed to maintain mechanical signalling equipment still in use on state rail networks.

The mechanical signalling skills program is for rail workers whose job requires that they maintain mechanical rail signalling equipment.

Assessment pathways

An assessment-only pathway by RPL for suitably experienced rail workers is available.

Employees can have existing skills recognised or have skills topped-up through assistance with targeted gap-training.

A Statement of Attainment is awarded for units of competency from the *TLI31920 Certificate III in Mechanical Rail Signalling*. These units provide a well-rounded skill base for workers to maintain mechanical signals.



Course content

Course content includes:

- interpreting specifications correctly
- assembling and installing components correctly
- modifying/adjusting/maintaining and testing equipment for correct operation
- correctly diagnosing faults, repairing identified equipment
- adjusting and testing equipment, dealing with unplanned events
- cleaning and servicing equipment to organisational standards and checking for correct operation
- checking that technical/operational specifications are met and that equipment is compliant with work orders
- correctly disconnecting mechanical/interlocking equipment
- completing relevant technical reports, workplace records and documentation
- securing and certifying operational equipment to organisational standards



Skills recognition: units of competency

Technical (electrical qualified) and 'non-electrical' infrastructure employees

Five units from the *TLI31918 Certificate III in Mechanical Rail Signalling* provide a person with the skills needed to effectively install, maintain, fault-find, repair and test mechanical signalling equipment



TLIS3005 Install mechanical infrastructure for signalling

TLIB3046 Service and clean mechanical signalling equipment and infrastructure

TLIB3120 Test mechanical signalling equipment and isolate faults

TLIB3047 Repair and adjust mechanical signalling equipment and infrastructure

TLIB3048 Carry out off-site repair, overhaul and assembly of mechanical signalling equipment

Pre-requisites

There are no mandatory pre-requisites; however, some experience with mechanical signalling equipment may be an advantage.

Accredited outcome

Statement of Attainment issued on successful completion of assessment.

HRD–Mechanical rail signalling assessment

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Rail infrastructure training and assessment solutions

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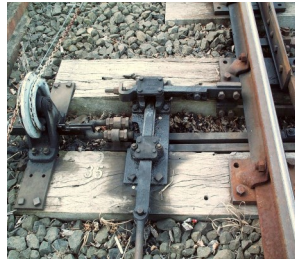
Training site: Rail Academy–Newport
Shea Street NEWPORT VIC 3015

Unit of competency information

TLIS3005 Install mechanical infrastructure for signalling

Installing mechanical infrastructure for signalling according to safeworking and regulatory requirements and workplace procedures involves:

- assembling components
- installing the equipment and components to specifications
- testing and adjusting the equipment to workplace requirements.



TLIB3120 Test mechanical signalling equipment and isolate faults



A person competent to test mechanical signalling equipment and isolate faults must be able to demonstrate that they can:

- undertake preparation tasks
- testing and/or isolate equipment
- check equipment operation
- finalise the testing and/or isolation of the equipment according to workplace procedures and regulatory requirements.

RPL/assessment-only

RPL candidates will:

- provide workplace documents/evidence confirming that they have installed, maintained, diagnosed faults, repaired and tested mechanical signalling equipment regularly over a period of time
- answer knowledge questions, if required
- demonstrate skills and knowledge at least once for each unit of competency or unit cluster.

TLIB3046 Service and clean mechanical signalling equipment and infrastructure

Servicing and cleaning mechanical signalling equipment includes:

- cleaning and servicing equipment
- checking/testing the operation and functionality of the equipment/infrastructure after cleaning.



TLIB3047 Repair/adjust mechanical signalling equipment and infrastructure



This unit involves repairing and adjusting mechanical signalling equipment and infrastructure (excluding interlocking equipment) according to workplace procedures.

It includes:

- diagnosing equipment faults
- correcting equipment faults
- Testing/adjusting the equipment after repair.

TLIB3048 Carry out off-site repair, overhaul and assembly of mechanical signalling equipment

Off-site repair and overhaul of mechanical signalling equipment includes:

- assessing equipment condition
- replacing out-of-specification components
- producing or assembling components
- testing and adjusting equipment to ensure overall system integrity.



Gap-Training

HRD can provide trainer support to enterprises where employees need gap-training to build skills and knowledge.