

Title	Demonstrate knowledge of signalling systems in a rail environment		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of signalling systems in a rail environment.
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Classification	Rail Transport > Rail Infrastructure
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Available grade	Achieved
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Guidance Information

- 1 Assessment against this unit standard is to be carried out within the context of an organisation operating under a current, valid Rail Licence issued in accordance with the provisions of the Railways Act 2005. The organisation's operating rules, codes, and instructions, referred to in this unit standard, are those the organisation has in place to meet the requirements of the Rail Licence.
- 2 Definitions

Location refers to signal shelters, signal boxes, track disconnection boxes, and track tuning unit boxes.

Organisational procedures refer to documents that include – worksite rules, codes, and practices; equipment operating instructions; documented quality management systems; and health and safety requirements.

Signalling equipment refers to signals/indicators, insulated joints, axle counters, level crossing alarms, and locations.
- 3 Assessment information

All activities and evidence must be in accordance with organisational procedures.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of signalling systems in a rail environment.

Performance criteria

- 1.1 Signalling systems are identified, and their functions are described.

Range may include but is not limited to – track circuits, axle counters, insulated joints, cables, signalling equipment, interlocked points. evidence of four is required.

1.2 Effect of rail infrastructure work is described in terms of potential disruption or damage to signalling systems.

Range may include but is not limited to – ballast replacement, rail replacement, sleeper replacement, fastening systems replacement, turnout maintenance.

1.3 Interruption to signalling systems is described in terms of causes and the resulting disruptions or hazards to rail network.

Range evidence of two disruptions or hazards is required.

1.4 Permission system for rail infrastructure work that effects signalling systems is described.

1.5 Actions to take in the event of damage to signalling systems are described.

Range may include but is not limited to – track circuits, axel counters, insulated joints, cables, signalling equipment, interlocked points; evidence of four is required.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 May 2003	31 December 2013
Review	2	21 November 2008	31 December 2023
Review	3	24 February 2022	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering, and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.