

Title	Operate equipment on a rail infrastructure wagon		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the safe operation of rail infrastructure wagons; prepare to operate equipment on a rail infrastructure wagon; operate equipment on a rail infrastructure wagon; perform post-operational equipment procedures on a rail infrastructure wagon.
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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 Legislation relevant to this unit standard includes:
Health and Safety at Work Act 2015;
Railways Act 2005.
- 3 Definitions
Organisational procedures refer to documents that include – worksite rules, codes, and practices; equipment operating instructions; documented quality management systems; and health and safety requirements.
Relevant personnel refers to personnel who should be consulted with/reported to in accordance with organisational procedures. This may include but is not limited to – supervisor, site manager, signal operator, train controller.
Work plan refers to instructions that may include – work or service order, verbal instruction, formal work plan.
- 4 Assessment information
 - a All activities and evidence must be in accordance with organisational procedures and work plan.
 - b Competence is to be demonstrated operating equipment on a minimum of three types of rail infrastructure wagons.
 - c Competence can be demonstrated in simulated scenarios, using for example, virtual reality technology.

- 5 Range
Rail infrastructure wagon types may include but are not limited to – Side Dump Wagon, Ballast Wagon, Plough Van, Rail Recovery Wagon.
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Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the safe operation of rail infrastructure wagons.

Performance criteria

1.1 Hazards associated with the operation of wagons are explained.

1.2 Wagon faults are identified and their solutions are explained.

1.3 Safe working requirements are explained.

Range personal protective equipment (PPE), equipment, tools, safe riding positions.

Outcome 2

Prepare to operate equipment on a rail infrastructure wagon.

Performance criteria

2.1 Safety requirements are followed.

Range PPE, tools and equipment, communication equipment.

2.2 Hazards are identified and control methods are implemented.

2.3 Rail permission systems are followed.

Range may include but is not limited to – track protection, permit, track access.

2.4 Pre-operational checks are performed, and any deficiencies are rectified or reported.

Range may include but is not limited to – equipment defects, lubrication, power or fuel levels, security of loadings, tools and equipment stowed and secured, hydraulics, communication equipment.

Outcome 3

Operate equipment on a rail infrastructure wagon.

Performance criteria

- 3.1 Wagon equipment start-up procedure is completed.
- 3.2 Control of wagon equipment is demonstrated.
- Range may include but is not limited to – crane, side tipper, plough blades, doors.
- 3.3 Equipment is monitored during operation.
- Range may include but is not limited to – warning lights, pressure gauges.
- 3.4 Communications with relevant personnel are maintained.

Outcome 4

Perform post-operational equipment procedures on a rail infrastructure wagon.

Performance criteria

- 4.1 Wagon equipment is shut down, and wagon is secured for travel.
- 4.2 Post-operational equipment checks are performed.
- Range may include but is not limited to – equipment defects, maintenance requirements, equipment safe travel position.
- 4.3 Deficiencies with equipment are identified and rectified or reported.
- 4.4 Required documentation is completed.

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	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 the 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.