

Title	Operate on-track self-propelled equipment in a rail environment		
Level	3	Credits	2

Purpose	People credited with this unit standard are able to: perform pre-operational equipment checks and procedures; operate on-track self-propelled equipment; and perform post-operational equipment procedures for on-track self-propelled equipment.
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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
Health and Safety at Work Act 2015.
Railways Act 2005.
- 3 Candidates must hold a minimum of the class of licence required for the vehicle being driven and comply with the requirements of the Land Transport (Driver Licensing) Rule 1999.
- 4 Definitions
Hi-rail vehicle (HRV) refers to a road vehicle not exceeding an unladen weight of 20 tonnes which is fitted with rail trolleys such that it can be driven along the track and can also be driven on or off track at level crossings or other suitable places.
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 or reported to in accordance with organisational procedures. This may include but is not limited to – supervisor, site manager, signal operator, train controller.
Trolley refers to a trolley used for the conveyance of staff, material or tools which can be readily removed from the track by not more than two persons.
- 5 Assessment information
 - a Competence is to be demonstrated on at least one trolley or hi-rail vehicle.
 - b All activities and evidence must be in accordance with organisational procedures.

- 6 Recommended skills and knowledge
Unit 19779, *Demonstrate and apply knowledge of track protection requirements in a rail environment*, or demonstrate equivalent knowledge and skills.
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Outcomes and performance criteria

Outcome 1

Perform pre-operational equipment checks and procedures for on-track self-propelled equipment.

Performance criteria

- 1.1 Basic pre-operational equipment checks are performed, and any deficiencies are identified and rectified or reported.
- Range may include but is not limited to – certification, equipment defects, lubrication, power or fuel levels, tyre pressure, pay load, security of loadings, signalling equipment, warning devices.
- 1.2 Hazards are identified and control methods are implemented.
- 1.3 Pre-operational documentation is completed.

Outcome 2

Operate on-track self-propelled equipment.

Performance criteria

- 2.1 Safety requirements are followed.
- Range may include but is not limited to – personal protective equipment, operation methods, communication equipment.
- 2.2 Rail permission systems are followed.
- Range may include but is not limited to – track protection, permit, track access.
- 2.3 Equipment is operated with consideration to track characteristics and environmental conditions.
- Range may include but is not limited to – current terrain, speed restrictions, condition of track, presence of track maintenance workers, weather conditions.
- 2.4 Equipment warning devices are monitored en-route.
- Range may include but is not limited to – warning lights, pressure gauges.

2.5 Communications with relevant personnel are maintained.

Outcome 3

Perform post-operational equipment procedures for on-track self-propelled equipment.

Performance criteria

3.1 Equipment is shut down and secured.

3.2 Post-operational equipment checks are performed and if required, reported.

Range may include but is not limited to – equipment defects, maintenance requirements.

3.3 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	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.