

Title	Demonstrate knowledge of rail operator communication systems		
Level	2	Credits	2

Purpose	People credited with this unit standard are able to: describe a communication system for use within a train; describe communication systems between train and Train Control; and describe communication systems between Train Control and a rail operations' centre.
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Classification	Rail Transport > Rail Core Skills
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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:
Railways Act 2005 and subsequent amendments.
- 3 Definitions
Communication systems, in the context of this unit standard, refers to technology that permits one and/or two-way communications between two or more individuals engaged in the management of the train.
Organisational procedures refer to documents that include: operating rules, codes, instructions, and practices; equipment operating instructions; documented quality management systems; and health and safety requirements.
Rail Operator refers to any holder of a licence granted under section 17 of the Railways Act 2005.
Train Control is where the movements of all trains in a specified area are brought under the direction of a train controller.
Rail operations' centre is where rail services on a rail network are managed by a rail operator.
- 4 Range
Communication systems may include but are not limited to – VHF radio, UHF radio, telephone, Fleetlink, Selcall.
- 5 Assessment information
All activities and evidence must be in accordance with organisational procedures.

Outcomes and performance criteria

Outcome 1

Describe a communication system for use within a train.

Performance criteria

- 1.1 Uses of the selected system are described.
- 1.2 Contingencies available in the event of system failure are identified.
- 1.3 Operation of the system is described.
 - Range incoming communications, outgoing communications, routine maintenance.

Outcome 2

Describe communication systems between train and Train Control.

Range evidence of at least two systems is required.

Performance criteria

- 2.1 Uses of the system are described, and users are identified.
- 2.2 Contingencies available in the event of system failure are identified.
- 2.3 Operation of the equipment is described.
 - Range incoming communications, outgoing communications, routine maintenance.
- 2.4 Restrictions on system use are described.

Outcome 3

Describe communication systems between Train Control and a rail operations' centre.

Performance criteria

- 3.1 Uses of the system are described, and users are identified.
- 3.2 Contingencies available in the event of system failure are identified.
- 3.3 Operation of the equipment is described.
 - Range incoming communications, outgoing communications, routine maintenance.
- 3.4 Restrictions on system use are described.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 May 2002	31 December 2022
Review	2	14 December 2007	31 December 2022
Review	3	29 April 2021	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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.