

Title	Demonstrate knowledge of a track warrant control (TWC) system		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the principles of a TWC system; describe the procedures for the management of rail vehicle movements using a TWC system; and demonstrate knowledge of TWC system limits and procedures for the management of TWC contingencies.
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Classification	Rail Transport > Rail Operations
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Available grade	Achieved
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Prerequisites	Unit 19286, <i>Demonstrate an advanced knowledge of railway signals</i> , or demonstrate equivalent knowledge and skills.
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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 the Health and Safety in Employment Act 1992.
- 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.
Rail vehicle refers to any flanged wheeled vehicle which uses the railway line.
Train Control is a centre from where the movements of all trains in a specified area are brought under the direction of a Train Control Officer.
TWC section refers to a section of single line railway with crossing points where occupation of the main line is controlled by written instructions issued by Train Control.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the principles of a TWC system.

Performance criteria

- 1.1 The objective of a TWC system is described in accordance with organisational procedures.
- Range train movements, maintenance teams.
- 1.2 Terminology associated with TWC is explained in accordance with organisational procedures.
- Range interlocked station, warrant station, intermediate board, addressee, station warning board, points indicator, signals, track metreage peg.
- 1.3 Documentation associated with TWC is described in terms of format and purpose.
- Range Train Control copy, addressee copy.
- 1.4 Levels of authorisation for the control of train movements within a TWC system are identified in accordance with organisational procedures.
- Range Train Control personnel, on-train personnel.

Outcome 2

Describe the procedures for the management of rail vehicle movements using a TWC system.

Performance criteria

- 2.1 Methods for issuing track warrants are described in accordance with organisational procedures.
- Range direct communication with addressee available, no direct communication with addressee available.
- 2.2 Instructions for rail vehicle movements are described in terms of warrant authorisations and organisational procedures.
- Range proceed, work, conditional – after arrival, conditional – after departure.
- 2.3 Restrictions on the operation of hand and motor points on a TWC section are described in accordance with organisational procedures.

- 2.4 Methods for changing track warrant instructions are described in accordance with organisational procedures.
- Range cancellation, transfer – addressee to addressee, re-issue.
- 2.5 Entry to, and departure from, warrant stations are described in accordance with organisational procedures.
- Range colour light points indicators, arrival signals, stations without signals.
- 2.6 Steps for authorising train movement through prescribed signals are described in accordance with the track warrant and organisational procedures.
- Range stop and stay, stop and proceed.
- 2.7 Working of sidings and loops within a TWC system is described in accordance with organisational procedures.
- Range operation of points, completely enter sidings for other trains to pass, fouling of loop.

Outcome 3

Demonstrate knowledge of TWC system limits.

Performance criteria

- 3.1 Methods used to designate TWC section limits are described in accordance with organisational procedures.
- Range may include but is not limited to – station names, track metreage pegs, notice boards, sidings, signals, colour-light points indicators.
- 3.2 Situations where more than one movement may be issued within a TWC limit are described in accordance with organisational procedures.
- Range single warrant for multiple activities, multiple warrants with common limits.
- 3.3 Limits of a warrant that commences at a location are described in accordance with organisational procedures.
- Range interlocked station, warrant station, siding.
- 3.4 Limits of a warrant that terminates at a location are described in accordance with organisational procedures.
- Range station, siding.

Outcome 4

Demonstrate knowledge of procedures for the management of TWC contingencies.

Performance criteria

4.1 Actions to take in the event of a train failing to meet the requirements of a given track warrant are described in accordance with organisational procedures.

Range may include but is not limited to – incident, disabled train, stalled train, divided train.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 May 2002	31 December 2024
Review	2	20 November 2009	31 December 2024
Review	3	24 February 2022	31 December 2024

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>.