

Field Service Sector

Review of *Rail Transport* unit standards

Subfield	Domain	ID
Rail Transport	Rail Infrastructure	19779, 19781, 19784, 19785, 19788, 19789, 19790, 19912, 19914, 19916
	Rail Operations	19394

Hanga Aro Rau Manufacturing, Engineering and Logistics Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

February 2022

Planned review date

December 2026

Summary

This review was conducted in conjunction with the development of two new rail infrastructure qualifications:

- New Zealand Certificate in Rail Infrastructure (Level 3) [Ref: 4488]
- New Zealand Certificate in Rail Infrastructure (Level 4) [Ref: 4489]

This review was completed throughout 2021, in consultation with stakeholders through face-to-face and video review meetings. These stakeholders were primarily representatives from the only identified industry user of these standards and qualifications, with numerous technical experts from across the country inputting into the review and development on unit standards.

Fourteen new unit standards have been developed to address gaps in skills and knowledge identified by stakeholders and to align with the requirements of the new Rail Infrastructure qualifications that have been developed.

All feedback received prior to and during the review process was incorporated and endorsed for registration by the stakeholders in September 2021.

Main changes

- Guidance information has been updated across the suite of standards.
- New unit standards 31906 - 31916 have been developed to meet industry needs aligning with the newly developed rail infrastructure qualifications.
- Unit standards 19912, 19916 and 19394 have been expired without replacement due to no longer being required by industry.
- Unit standards 19779, 19785, 19788, 19789 and 19790 received level increases, to better reflect the level of skills, knowledge and responsibly required of learners, aligning with the newly developed rail infrastructure qualifications.
- Unit standard 19779 have received a new title to reflect revised performance criterion.
- Unit standards 19789, 19790 and 19914 have received increases to their level and/or credit value, to better match the time required for learners to gain the skills and knowledge covered by each standard.
- Unit standards 19784, 19785 and 19788 have been expired and replaced by new unit standards 33027, 33028 and 33030 to allow for title changes, level increases to better reflect the level of skills, knowledge and responsibly required of learners, and to better align with the newly developed qualifications.

The last date for assessment of superseded versions of Category B unit standards is December 2023

Category C and D unit standards will expire at the end of December 2024

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Service Sector > Rail Transport > Rail Infrastructure

ID	Title	Level	Credit	Review Category
19779	Operate under track protection rules in a rail environment Demonstrate and apply knowledge of track protection requirements in a rail environment	2 3	4	B
19781	Operate on-track self-propelled equipment in a rail environment	3	2	B
19784 33027	Install or replace rail Prepare and install closure rail	3 3	2 5	C
19785 33028	Maintain track in a rail environment Prepare and maintain fastening systems in a rail environment	2 3	2 5	C
19788 33030	Undertake track ballast activities in a rail environment Demonstrate and apply knowledge of track ballast	2 3	2 3	C
19789	Install railway sleepers	2 3	2 3	B
19790	Maintain track geometry in a rail environment	3 4	4 10	B
19912	Install and maintain track circuit bonding in a rail environment	3	3	D
19914	Demonstrate knowledge of signalling systems in a rail environment	3	4 3	B
19916	Conduct inspection of signals and related structures in a rail environment	3	2	D
32906	Demonstrate and apply knowledge of track fundamentals for rail infrastructure	3	5	New
32907	Conduct special inspection of track in a rail environment	4	5	New
32908	Interpret plans and implement maintenance activities for a rail infrastructure team	4	5	New
32909	Install rail in preparation for forming continuous welded rail	4	10	New
32910	Install track through a level crossing	4	5	New
32911	Assemble, install, and maintain track structures	4	10	New
32912	Maintain rail joints	4	3	New

ID	Title	Level	Credit	Review Category
32913	Interpret and identify track geometry exceedances and perform root cause analysis for rail infrastructure	4	10	New
32914	Repair track ballast mud spots	4	6	New
32915	Explain track stability	4	4	New
32916	Operate equipment on a rail infrastructure wagon	4	5	New

Service Sector > Rail Transport > Rail Operations

ID	Title	Level	Credit	Review Category
19394	Demonstrate knowledge of a track warrant control (TWC) system	4	6	D