

Title	Install hand rail or sight rail for road		
Level	2	Credits	4

Purpose	People credited with this unit standard are able to: prepare for installation of hand rail or sight rail; install posts for hand rail or sight rail; fit rail and attachment for hand rail or sight rail; and clean up site.
----------------	--

Classification	Infrastructure Works > Generic Road Works
-----------------------	---

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 The following codes of practice and guidelines must be complied with: *Manual of Traffic Signs and Markings Parts 1-3*; TNZ C/20: 2003 *Specification for the Erection and Maintenance of Traffic Signs, Chevrons, Markers and Sight Rails*; TNZ P/24: 2008 *Performance Based Specification for Traffic Signs*. A full listing of NZ Transport Agency’s principal external manuals, manual amendments and technical documents are listed on <https://www.nzta.govt.nz/resources/>.
- 2 Assessment against this unit standard must take place in a workplace environment. Assessment parameters will be dependent on company and site specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements. Assessment against this unit standard requires installation of either sight rail or hand rails.
- 3 **Definitions**
Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements which may apply across the company or to a specific site. Requirements are documented in the company’s health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents.
Job instructions are those given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.
Set-out means the markings established using surveying methods that establish control points and reference points for construction.
A *sight rail* is intended to alert and guide motorists through a change of direction.
A *hand rail* is on a bridge or walkway for pedestrian safety.

Outcomes and performance criteria

Outcome 1

Prepare for installation of hand rail or sight rail.

Performance criteria

- 1.1 Site is checked to compare job instructions with actual conditions on site and any discrepancies found are reported to supervisor.
- Range type of materials, set-out, clearances, equipment, access, safety, obstructions, underground services, quantities; temporary traffic management plan.
- 1.2 Existing underground services are located and marked in accordance with job instructions, and company and service provider requirements.
- 1.3 Posthole locations are set out in accordance with job instructions.
- 1.4 Tools and equipment are selected in accordance with job instructions and company requirements.

Outcome 2

Install posts for hand rail or sight rail.

Performance criteria

- 2.1 Holes are excavated in accordance with depths and dimensions shown on job instructions.
- 2.2 Posts are installed, aligned, and backfilled in accordance with job instructions and company requirements.

Outcome 3

Fit rail and attachment for hand rail or sight rail.

Performance criteria

- 3.1 Dimensions and measurements are confirmed before fixing in accordance with job instructions.
- 3.2 Rail and attachment fixings are drilled, jointed, fixed, and tightened at specified dimensions in accordance with job instructions and company requirements.
- 3.3 Attachment is fitted in accordance with job instructions.
- Range attachment such as – reflector, light, sign.

Outcome 4

Clean up site.

Performance criteria

- 4.1 Surplus materials and debris are removed from site in accordance with company requirements.
- 4.2 Site is inspected and left clean in accordance with job instructions and company requirements.

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	30 July 1996	31 December 2012
Revision	2	9 March 1999	31 December 2012
Review	3	30 May 2000	31 December 2012
Review	4	25 September 2006	31 December 2012
Review	5	18 February 2011	31 December 2020
Review	6	24 January 2019	31 December 2020

Consent and Moderation Requirements (CMR) reference

0101

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.