

Title	Install guard rails or wire rope barriers on civil construction works		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: prepare for installation; install posts or sleeves; fit rails or wire and attachments for guard rails or wire rope barriers; and clean up site.
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Classification	Civil Works and Services > Civil Construction Works
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Available grade	Achieved
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Prerequisites	Unit 6479, <i>Locate and identify services for infrastructure works</i> ; or demonstrate equivalent knowledge and skills.
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Guidance Information

- The following legislation and regulations must be complied with: Health and Safety in Employment Act 1992; and Health and Safety in Employment Regulations 1995.
- 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.
- The following codes of practice and guidelines must be complied with: M/23: 2009 *Specification for Road Safety Barrier Systems*. A full listing of the NZ Transport Agency's principal external manuals, manual amendments and technical documents are listed on <https://www.nzta.govt.nz/resources/>.
- 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.
Contract specifications include plans, diagrams, and special technical conditions. They do not include special administrative conditions.
Manufacturer's instructions may include specifications, installation, handling, use and maintenance instructions and safety data sheets.
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 to set out site by survey method using pegs.

Guard rails and Wire rope barriers are designed and engineered to absorb vehicle impact.

- 5 Work on gas, telecommunications and power services should be carried out under supervision of the relevant service provider.
- 6 Assessment of this unit standard is for either guard rails or wire rope safety barriers.

Outcomes and performance criteria

Outcome 1

Prepare for installation of guard rails or wire rope barriers.

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; may include traffic movement.
- 1.2 Posthole locations are set out in accordance with contract specifications and manufacturer's instructions.
- 1.3 Existing underground services are located and marked in accordance with contract specifications, company and service provider requirements.
- 1.4 Tools and equipment are selected in accordance with job instructions and company requirements.

Outcome 2

Install posts or sleeves for guard rails or wire rope barriers.

Performance criteria

- 2.1 Holes are excavated in accordance with contract specifications and manufacturer's instructions.
- 2.2 Posts or sleeves are installed, aligned, and backfilled in accordance with contract specifications and manufacturer's instructions.
- 2.3 Anchorages and bracing are attached in accordance with contract specifications and manufacturer's instructions.

Outcome 3

Fit rails or wire and attachments for guard rails or wire rope barriers.

Performance criteria

- 3.1 Dimensions and measurements are confirmed before fixing in accordance with contract specifications.
- 3.2 Rails or wire and attachments are jointed, fixed, and tightened at dimensions shown on plan in accordance with contract specifications and manufacturer's instructions.
- 3.3 Attachments such as reflectors, lights, and signs are fitted in accordance with contract specifications and manufacturer's instructions.

Outcome 3

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 contract specifications and company requirements.

Replacement information	This unit standard and unit standard 11316, unit standard 22289, and unit standard 28712 were replaced by unit standard 31482.
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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	25 September 2006	31 December 2021
Review	2	27 September 2018	31 December 2021

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.