

Title	Install a thrust, anti-scour or anchor block for water reticulation		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to install a thrust, anti-scour or anchor block, and describe regulatory requirements, selection of methods and materials, and the concept of thrust, as applied to the installation of thrust, anti-scour, and anchor blocks for water reticulation.
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Classification	Water Industry > Water Reticulation
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Available grade	Achieved
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Guidance Information

- 1 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2015; Resource Management Act 1991; Utilities Access Act 2010; Building Act 2004, and subsequent amendments; *Excavation Safety - Good Practice Guidelines 2016*, and *Guide for Safety with Underground Services* (Wellington: Electricity Engineers Association of NZ Inc., 2002); available at <http://www.business.govt.nz/worksafe/>; NZS 4404:2010 *Land development and subdivision infrastructure*, available from <http://www.standards.govt.nz/>; Local or territorial authority requirements.
- 2 Definition
Specification – the drawings and specification setting out the position and standards for the proposed work.
- 3 This unit standard applies to thrust, anti-scour, or anchor blocks made from pre-cast concrete, blocks in-situ, and suitably ground-treated timbers.
- 4 This unit standard can be assessed against using a simulated scenario.
- 5 Credit for this unit standard does not qualify the candidate to work in a drainlaying situation that comes under the drainlayers licence requirements issued under the Plumbers, Gasfitters, and Drainlayers Act 2006 and any subsequent amendments.

Outcomes and performance criteria

Outcome 1

Install a thrust, anti-scour or anchor block

Performance criteria

- 1.1 Block is positioned in accordance with the specification.
- 1.2 Block is installed in accordance with the specification.
- 1.3 Block and associated fittings are protected in accordance with the specification.

Outcome 2

Describe regulatory requirements, selection of methods and materials, and the concept of thrust, as applied to the installation of thrust, anti-scour, and anchor blocks for water reticulation.

Performance criteria

- 2.1 Relevant sections of legislation, standards, and codes are described in terms of their application to the installation of thrust, anti-scour, and anchor blocks.
- 2.2 Selection of methods and materials is described in accordance with the specification.
- 2.3 The concept of thrust is described in terms of its application to the installation of thrust, anti-scour, and anchor blocks.

Replacement information	This unit standard, unit standard 19209, unit standard 19211, unit standard 22097, unit standard 22100, and unit standard 24922 were replaced by unit standard 31449.
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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	21 July 2011	31 December 2018
Review	2	16 March 2017	31 December 2021
Review	3	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>.