

Title	Install stormwater handling systems		
Level	4	Credits	3

Purpose	<p>This unit standard is for people who work in the drainlaying industry.</p> <p>People credited with this unit standard are able to</p> <ul style="list-style-type: none"> – determine position for the installation of stormwater handling systems; and – select, install, and commission stormwater handling systems.
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Classification	Plumbing, Gasfitting and Drainlaying > Drainlaying
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:
- Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Plumbers, Gasfitters, and Drainlayers Act 2006;
 - Plumbers, Gasfitters, and Drainlayers Regulations 2010;
 - Resource Management Act 1991.

The following standards, which are available at <http://www.standards.govt.nz>:

- AS/NZS 2032:2006 *Installation of PVC pipe systems*;
- AS/NZS 3500.3:2021 *Plumbing and drainage, Part 3: Stormwater drainage*.

The following guides, which are available at <http://www.worksafe.govt.nz/worksafe>:

- Good practice guidelines – Excavation safety*, Wellington: WorkSafe New Zealand, 2016;
- Guide for Safety with Underground Services*, Wellington: Department of Labour, 2002.

The following Building Code clauses, and any related Acceptable Solution and Verification Method documents, which are available at <https://www.building.govt.nz>:

- New Zealand Building Code Clause B2 Durability;
- New Zealand Building Code Clause E1 Surface Water.

Any new, amended or replacement referenced standards, codes of practice, guidelines, Building Code Acceptable Solutions and Verification Methods, or authority requirements affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Job specifications refer to instructions (oral, written, graphic) and may include any of the following: manufacturer instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements.

Stormwater handling systems refer to drainage systems for the disposal of stormwater that will be constructed to convey surface water to an appropriate outfall, using gravity flow where possible, and include –

onsite stormwater disposal systems – which includes all manner of ground soakage disposal systems (soak pits);

surface water collection systems – pre-cast concrete, in-situ, open drains, kerbs, and channels;

sub-soil systems – to capture and redirect subsurface water;

sumps – which include silt traps.

3 Candidates must hold a current limited certificate trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

4 Assessment information

All work must be completed in accordance with job specifications.

5 Range

This unit standard requires a drainage installation including a minimum of four different fittings.

6 Level of performance

To achieve this standard the candidate must be capable of consistently performing the requirements:

- to current and relevant legislation, standards and codes (including safety);
- in an environmentally sustainable manner;
- within an acceptable timeframe;
- in the workplace;
- in different and unfamiliar contexts.

Outcomes and performance criteria

Outcome 1

Determine position for the installation of stormwater handling systems.

Performance criteria

1.1 Establish line and gradient to measurements.

1.2 Position stormwater elements to measurements in accordance with relevant legislation and codes.

Outcome 2

Select, install, and commission stormwater handling systems.

Performance criteria

2.1 Select, install, and commission stormwater collection systems.

Range includes but is not limited to – stormwater channel drain.

2.2 Select, install, and commission sub-soil drainage.

Range may include but not limited to – slotted drains, perforated pipes.

2.3 Select, install, and commission sumps.

Range Type 1, Type 2.

2.4 Install an onsite stormwater disposal system.

Planned review date	31 December 2029
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 May 2024	N/A

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.