

Title	Install foulwater drains		
Level	4	Credits	4

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"> – install foulwater drains; and – install access points
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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:
- Plumbers, Gasfitters, and Drainlayers Act 2006;
 Health and Safety at Work Act 2015;
 Building Act 2004;
 Resource Management Act 1991;
 Plumbers, Gasfitters, and Drainlayers Regulations 2010.

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

AS/NZS 1547:2012 *On-site domestic wastewater management*;
 AS/NZS 1546.1:2008 *On-site domestic wastewater treatment units – Septic tanks*;
 AS/NZS 2032:2006 *Installation of PVC pipe systems*;
 AS/NZS 3500.2:2021 *Plumbing and drainage, Part 2: Sanitary plumbing and drainage*.

Good practice guidelines – Excavation safety, Wellington: WorkSafe New Zealand, 2016, available at <http://www.worksafe.govt.nz/worksafe>.

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 G13 Foul 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 – manufacturers' 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.

Services refer to any existing installed services such as water, gas, electricity, or telephone network cables.

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 Range

Evidence is required of three foul water drainage installations that in aggregate include at least three fittings including an access point, a gully, a WC connection, and a separate vent.

5 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

Install foulwater drains.

Range pipework includes pipe and associated fittings;
 pipes may include but are not limited to – uPVC, polyethylene, concrete, steel, ABS, cast iron, copper.

Performance criteria

- 1.1 Select pipe and fittings of appropriate specifications.
- 1.2 Install and connect pipework in accordance with job specifications and relevant standards and codes.
- 1.3 Carry out soundness tests and record outcomes.
- 1.4 Complete as-built drawing.

Outcome 2

Install access points.

Range includes but is not limited to – inspection points, rodding points.

Performance criteria

- 2.1 Select appropriate type of access point.
- 2.2 Position access point according to the type of access point and the purpose it is to serve.
- 2.3 Install access point and any associated pipework and fittings.
- 2.4 Use appropriate methods of jointing access point to pipework according to the materials being joined.

Range may include – band clamped sleeve, plaster/epoxy mortar (epoxy resin), rubber ring, solvent weld, fusion weld (PE).

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.