

Title	Install, secure, and maintain foul water systems in accordance with NZ Building Code G13 Acceptable Solution 1		
Level	4	Credits	6

Purpose	<p>This unit standard is for people who work in the plumbing industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – install and secure foul water systems in buildings in accordance with Building Code Clause G13 Foul water – Acceptable Solution 1 and job specifications; and – maintain foul water systems in buildings.
----------------	---

Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
-----------------------	---

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

Guidance Information

- 1 References

Building Act 2004;
 Building Regulations 1992;
 Health and Safety at Work Act 2015;
 Plumbers, Gasfitters, and Drainlayers Act 2006;
 Plumbers, Gasfitters, and Drainlayers Regulations 2010;
 The following standards, which are available at <https://www.standards.govt.nz>:
 AS/NZS 3500.2:2015 *Plumbing and drainage – Sanitary plumbing and drainage*,
 NZS 3604:2011 *Timber framed buildings*,
 NZS 5807:1980 *Code of practice for industrial identification by colour, wording or other coding*;
 The following guides, which are available at <http://www.worksafe.govt.nz>:
Excavation Safety – Good practice Guidelines,
Underground services – Guide for safety with underground services;
 The following clauses, current versions, and any related compliance documents, which are available at <https://www.building.govt.nz>:
 New Zealand Building Code Clause G10 Piped Services,
 New Zealand Building Code Clause G13 Foul Water;
 and all subsequent amendments and replacements.
- 2 This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.

- 3 Range
Pipework – must include unplasticised polyvinylchloride (uPVC), associated fittings; may include new or emerging products (polyethylene);
Traps – grease, trade waste, fixture traps, floor waste gully traps.
- 4 Definitions
Foul water systems – systems for conveying foul water to the outside of the building without leakage, blockage, or allowing foul air to enter the building.
Job specifications – 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. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.
Maintain may refer to all or any of – repair, upgrade, alter, remove, including preventative measures.
Other services – any existing installed services such as water, gas, electricity, or telephone network cables.
- 5 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
- 6 All practical activities must be carried out in a way that avoids harm to people and damage to property, environment, other services, materials, tools, and equipment.

Outcomes and performance criteria

Outcome 1

Install and secure foul water systems in buildings in accordance with Building Code Clause G13 Foul water – Acceptable Solution 1 and job specifications.

Range single-level, multi-level up to three storeys.

Performance criteria

- 1.1 Joint pipes using methods and fittings appropriate to the material being joined.
- 1.2 Join pipes of different materials.
Range may include cast iron, copper, earthenware, lead.
- 1.3 Identify system connection and termination points.
- 1.4 Connect pipework to connection and termination points.
- 1.5 Connect foul water pipework to sanitary fixtures.
- 1.6 Connect venting pipework to foul water system.
- 1.7 Carry out soundness tests.

- 1.8 Protect system components against physical damage.
- 1.9 Label pipework by system and/or colour and direction of flow, as appropriate.
- 1.10 Secure pipework.

Outcome 2

Maintain foul water systems in buildings.

Performance criteria

- 2.1 Assess installed foul water systems to identify faults in accordance with maintenance requirements and relevant standards and codes.
- 2.2 Rectify faults in accordance with maintenance requirements, job specifications, and relevant standards and codes.
- 2.3 Perform regular or preventative maintenance in accordance with predetermined requirements.
- 2.4 Perform appropriate post maintenance commissioning processes.

Replacement information	This unit standard, unit standard 30542, and unit standard 30544 replaced unit standard 2144.
--------------------------------	---

Planned review date	31 December 2022
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	N/A

Consent and Moderation Requirements (CMR) reference	0003
--	------

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

Comments on this unit standard

Please contact The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.