

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

<b>Purpose</b>	<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"> <li>– install and secure foul water systems in buildings in accordance with Building Code Clause G13 Foul water – Acceptable Solution 1 and job specifications; and</li> <li>– maintain foul water systems in buildings.</li> </ul>
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<b>Classification</b>	Plumbing, Gasfitting and Drainlaying > Plumbing
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<b>Available grade</b>	Achieved
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## 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.

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## 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.

<b>Replacement information</b>	This unit standard, unit standard 30542, and unit standard 30544 replaced unit standard 2144.
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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	26 October 2017	31 December 2028
Review	2	30 May 2024	31 December 2028

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