

<b>Title</b>	<b>Demonstrate knowledge of alternative water supply and water storage for sanitary plumbing</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<p>This unit standard is for people who work, or intend to work, in the plumbing industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of:</p> <ul style="list-style-type: none"> <li>– alternative water supplies for sanitary plumbing;</li> <li>– water storage systems for sanitary plumbing; and</li> <li>– regulatory requirements as applied to alternative water supplies, and water storage systems for sanitary plumbing.</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;  
 Health Act 1956;  
 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 <http://www.standards.govt.nz>:  
 AS/NZS 3500.1:2015 *Plumbing and drainage – Part 1: Water services*,  
 NZS 3604:2011 *Timber-framed buildings*,  
 NZS 5807:1980 *Code of practice for industrial identification by colour, wording or other coding*;  
 The following clauses 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 G12 Water Supplies;  
 and all their amendments and replacements.
- 2 This unit standard relates to the storage of water sourced from both reticulated network authority and self-contained water supply systems. Self-contained water supply systems may refer to private water collection or bore and distribution systems.
- 3 Credit for this unit standard does not entitle the candidate to legally perform certain electrical aspects of this work unless registered or supervised by a registered person under the provisions of the Electricity Act 1992.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of alternative water supplies for sanitary plumbing.

Range rainwater, bore water, grey water.

#### Performance criteria

- 1.1 Describe methods to access alternative sources of water to supply sanitary plumbing needs.
- 1.2 Describe requirements to manage water quality of alternative supply sources.
- 1.3 Describe limitations on the use that can be made of water from alternative sources.

### Outcome 2

Demonstrate knowledge of water storage systems for sanitary plumbing.

#### Performance criteria

- 2.1 Describe the operation of gravity feed water storage systems.  
  
Range external elevated reservoir, internal header tank, break tanks in multi-story buildings.
- 2.2 Describe particular requirements for water storage systems.  
  
Range grey water, emergency water supply, storage for fire protection.
- 2.3 Describe the requirements to provide overflow protection for water storage systems.

### Outcome 3

Demonstrate knowledge of regulatory requirements as applied to alternative water supplies, and water storage systems for sanitary plumbing.

#### Performance criteria

- 3.1 Describe the application of relevant sections of legislation, standards, and codes to the use of alternative water supplies.
  - 3.2 Describe the application of relevant sections of legislation, standards, and codes to the installation, securing, and maintenance of water storage systems.
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<b>Planned review date</b>	31 December 2022
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**Status information and last date for assessment for superseded versions**

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

<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>.

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**Comments on this unit standard**

Please contact The Skills Organisation [reviewcomments@skills.org.nz](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.