

<b>Title</b>	<b>Demonstrate knowledge of plumbing aspects of domestic fire sprinkler systems</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 plumbing aspects of domestic fire sprinkler systems.</p>
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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 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 standard, which is available at <http://www.standards.govt.nz>:  
 NZS4517:2010 *Fire sprinkler systems for houses*.

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 C Protection from fire.  
 New Zealand Building Code Clause G12 Water Supplies.

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

- 2 Definition  
*Domestic fire sprinkler systems* refer to systems in one household unit, (does not apply to household units in multi-unit developments).

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

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of plumbing aspects of domestic fire sprinkler systems.

#### Performance criteria

- 1.1 Describe the implications of relevant sections of legislation, regulations, codes, to the installation of domestic fire sprinkler systems.
- 1.2 Explain underpinning concepts and principles in terms of their application to the installation of domestic fire sprinkler systems.
- Range pipe sizing for adequate flow and pressure, positioning of system components, secondary water supply.
- 1.3 Explain common elements of domestic fire sprinkler systems.
- Range materials and components, identification of pipework, backflow prevention, sprinkler heads.
- 1.4 Explain maintenance requirements of domestic fire sprinkler systems.
- Range fault identification and repair, preventative maintenance.

<b>Planned review date</b>	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	26 October 2017	31 December 2028
Review	2	30 May 2024	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>.

### Comments on this unit standard

Please contact Waihangara Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@waihangaraarau.nz](mailto:qualifications@waihangaraarau.nz) if you wish to suggest changes to the content of this unit standard.