

Title	Demonstrate knowledge of plumbing aspects of domestic fire sprinkler systems		
Level	4	Credits	3

Purpose	<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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Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
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Available grade	Achieved
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Guidance Information

1 References

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 clause, and any related compliance documents, which are available at <https://www.building.govt.nz/>:
 New Zealand Building Code Clause C Protection from fire;
 and all subsequent amendments and replacements.

2 Definitions

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.

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

3 Candidates must hold a current limited certificate 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.

Planned review date	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

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