

Title	Demonstrate knowledge of the underpinning principles of hydraulic design for fire sprinkler systems		
Level	4	Credits	4

Purpose	<p>This unit standard is for personnel employed in the fire protection industry and covers the underpinning principles of hydraulic design for fixed fire protection systems in accordance with section 10 of NZS 4541:2020, and the variables that affect these designs.</p> <p>People credited with this unit standard are able to demonstrate knowledge of the underpinning principles of hydraulic design for fire sprinkler systems.</p>
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Classification	Mechanical Engineering > Fixed Fire Protection Systems
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Available grade	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,
 Ministry of Business, Innovation and Employment (MBIE) *Acceptable Solutions (AS) and Verification Methods (VM)*,
 MBIE New Zealand Building Code Handbook,
 NZS 4541:2020, *Automatic fire sprinkler systems*.
 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 2 Assessment information
 For the purpose of assessment against this unit standard, training providers may provide specifications of an installation to candidates.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the underpinning principles of hydraulic design for fire sprinkler systems.

Performance criteria

- 1.1 Variables that affect the hydraulic design of fire sprinkler systems are described in accordance with section 10 of NZS 4541:2020.
- 1.2 Typical hydraulic requirements and parameters for fire sprinkler systems are calculated in accordance with section 10 of NZS 4541:2020.

Planned review date	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Status information and last date for assessment for superseded versions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	15 October 2015	31 December 2026
Review	2	27 June 2024	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.