

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 part 10 of NZS 4541:2013 and NZS 4515:2009, 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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Explanatory notes

- 1 References
Ministry of Business, Innovation and Employment (MBIE) *Acceptable Solutions (AS) and Verification Methods (VM)*. Available at <http://www.dbh.govt.nz/AS/VM-documents>
New Zealand Building Code
NZS 4541:2013, *Automatic fire sprinkler systems*.
- 2 Assessment
For the purpose of assessment against this unit standard, training providers may provide specifications of an installation to candidates.

Outcomes and evidence requirements

Outcome 1

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

Evidence requirements

- 1.1 Variables that affect the hydraulic design of fire sprinkler systems are described in accordance with part 10 of NZS 4541: 2013.
- 1.2 Typical hydraulic requirements and parameters for fire sprinkler systems are calculated in accordance with part 10 of NZS 4541: 2013.

Planned review date	31 December 2020
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Status information and last date for assessment for superseded versions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	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact Competenz at qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.