

Title	Demonstrate knowledge of deluge and pre-action fire sprinkler systems and commissioning procedures		
Level	4	Credits	3

Purpose	<p>This unit standard is for personnel employed in the fire protection industry and covers the knowledge of operating principles of deluge and pre-action fire sprinkler systems and commissioning procedures.</p> <p>People credited with this unit standard are able to demonstrate knowledge of deluge and pre-action fire sprinkler systems and commissioning procedures.</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
 Building Act 2004
 Ministry of Business, Innovation and Employment (MBIE) *Acceptable Solutions (AS) and Verification Methods (VM)*. Available at <http://www.dbh.govt.nz/AS/VM-documents>
 NZS 4541:2013, *Automatic fire sprinkler systems*.
- 2 Definitions
Commissioning is the process by which the newly installed components and systems are tested to verify if it functions according to its design objectives and/or specifications and brought into operation.
Systems documentation refers to the documentation required to be maintained by NZS 4541:2013 including log books, test reports, equipment details and drawings, specifications, additions and alterations, contract agreement, fire reports, building consents, standards, codes of practice, test and commissioning procedures, and test and maintenance records.
- 3 Assessment
 Use of NZS 4541:2013 by candidates during assessment is encouraged.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of deluge and pre-action fire sprinkler systems and commissioning procedures.

Evidence requirements

- 1.1 The principles of operation of deluge and pre-action fire sprinkler systems are explained.
- 1.2 Commissioning procedures for typical deluge and pre-action fire sprinkler systems are explained in accordance with systems documentation.

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Status information and last date for assessment for superseded versions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.