

Title	Install sprinkler heads		
Level	3	Credits	10

Purpose	<p>This unit standard is for personnel employed in the fire protection industry and covers the installation of sprinkler heads.</p> <p>People credited with this unit standard are able to: plan and prepare for installation of sprinkler heads; receive, prepare, and install sprinkler heads; and fill out sprinkler installation workplace records for the work completed.</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

- Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:

Building Act 2004,
 NZS 4515:2009, *Fire sprinkler systems for life safety in sleeping occupancies (up to 2000 square metres)*,
 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.
- Definitions**

As installed refers to the drawings and other relevant documentation giving details of the actual work completed on site.

Plan in this unit standard means the procedures developed to enable the work to be carried out in a logical and safe manner.

Systems documentation refers to the documentation required to be maintained by NZS 4541:2020, NZS 4515:2009, including logbook, test reports, equipment details and drawings, specifications, contract agreement, additions and alterations, fire reports, building consents standards, codes of practice, installation instructions, test and commissioning procedures, and test and maintenance records.

Workplace procedures refer to the documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site safety procedures, equipment operating procedures, codes of practice, quality assurance procedures, housekeeping standards, charging of time and materials, management of drawings and documentation, procedures to comply with legislative and local body requirements.

- 3 Assessment information
- All activities must comply with relevant legislative and/or regulatory requirements and recognised codes of practice.
 - All activities demonstrate safe working practices.
 - All activities must be completed and reported within agreed timeframes.
 - All activities must be done in accordance with applicable systems documentation, plans and workplace procedures.
- 4 Range
- For assessment purposes, competence must be demonstrated on installation of sprinkler heads for at least three different fire sprinkler systems.

Outcomes and performance criteria

Outcome 1

Plan and prepare for installation of sprinkler heads.

Performance criteria

- 1.1 Systems documentation for installation is located.
- 1.2 Installation requirements are checked against the physical site requirements.
- Range may include but is not limited to – access, site measurement, structural details, other services, spacing, position, obstructions.
- 1.3 Sprinkler heads are purchased or drawn from stock and delivery to the sites is confirmed.

Outcome 2

Receive, prepare, and install sprinkler heads.

Performance criteria

- 2.1 Sprinkler heads are received and checked for conformance with systems documentation.
- 2.2 Sprinkler heads are handled and stored.
- 2.3 Sprinkler heads are installed.
- 2.4 Safety requirements are complied with during installation of sprinkler heads.
- 2.5 Premises are cleared of all surplus introduced materials and equipment and left in a clean and tidy condition.

Outcome 3

Fill out sprinkler installation workplace records for the work completed.

Performance criteria

3.1 As installed details of systems are recorded and distributed.

Replacement information	This unit standard and unit standard 29927, unit standard 28829, and unit standard 28830 replaced unit standard 18434.
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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.