

<b>Title</b>	<b>Install sprinkler heads</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<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 enterprise records for the work completed.</p>
----------------	--

<b>Classification</b>	Mechanical Engineering > Fixed Fire Protection Systems
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

---

### Explanatory notes

- 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>  
 New Zealand Building Code  
 NZS 4515:2009, *Fire sprinkler systems for residential occupancies*  
 NZS 4541:2013, *Automatic fire sprinkler systems*.
- Definitions
 

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

*Enterprise 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.

*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 4541:2013, NZS 4515:2009, including log book, 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.

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

---

## Outcomes and evidence requirements

### Outcome 1

Plan and prepare for installation of sprinkler heads.

#### Evidence requirements

- 1.1 Systems documentation for installation is located in accordance with enterprise procedures.
- 1.2 Installation requirements are checked against the physical site requirements in accordance with systems documentation and enterprise procedures.
- 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 in accordance with enterprise procedures.

### Outcome 2

Receive, prepare, and install sprinkler heads.

#### Evidence requirements

- 2.1 Sprinkler heads are received and checked for conformance with systems documentation and in accordance with enterprise procedures.
- 2.2 Sprinkler heads are handled and stored in accordance with enterprise procedures.
- 2.3 Sprinkler heads are installed in accordance with systems documentation and enterprise procedures.
- 2.3 Safety requirements are complied with during installation of sprinkler heads in accordance with enterprise procedures.

### Outcome 3

Fill out enterprise records for the work completed.

#### Evidence requirements

- 3.1 As installed details of systems are recorded and distributed in accordance with systems documentation and enterprise procedures.
- 3.2 Premises are cleared of all surplus introduced materials and equipment and left in a clean and tidy condition in accordance with enterprise procedures.

<b>Replacement information</b>	This unit standard and unit standard 29927, unit standard 28829, and unit standard 28830 replaced unit standard 18434.
--------------------------------	--

<b>Planned review date</b>	31 December 2020
----------------------------	------------------

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	15 October 2015	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
--	------

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](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.