

<b>Title</b>	<b>Install pump units for fire sprinkler systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is for the personnel employed in the fire protection industry and covers the installation pump units for fire sprinkler systems.</p> <p>People credited with this unit standard are able to; prepare for installation of pump units for fire sprinkler systems; install pump units for fire sprinkler systems.</p>
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<b>Classification</b>	Mechanical Engineering > Fixed Fire Protection Systems
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<b>Available grade</b>	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 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**

*Pump unit* is as defined by NZS 4541:2020 and consists of a listed motor, listed controller, and a unit frame.

*Systems documentation* refers to the documentation required to be maintained by NZS 4541:2020, 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**

- a. All activities must comply with relevant legislative and/or regulatory requirements and recognised codes of practice.
- b. All activities must demonstrate safe working practices.
- c. All activities must be completed and reported within agreed timeframes.
- d. All activities must be done in accordance with applicable customer requirements, plan, systems documentation, plans and workplace procedures.

**4 Range**

For assessment purposes, competence must be demonstrated on installation of pump units for at least four fire sprinkler systems.

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**Outcomes and performance criteria****Outcome 1**

Prepare for installation of pump units for fire sprinkler systems.

**Performance criteria**

- 1.1 Pump unit installation requirements are identified.
- 1.2 Installation requirements are checked against the physical site requirements.  
  
Range site measurement, structural details, mounting requirements, other services.
- 1.3 Plans for installation of pump units are prepared.
- 1.4 Tools and equipment are prepared and set up.
- 1.5 Pump units and other required materials required for the installation are purchased or drawn from stock and delivery to the sites is confirmed.

**Outcome 2**

Install pump units for fire sprinkler systems.

**Performance criteria**

- 2.1 Safety requirements are complied with during the installation of pump units.
- 2.2 Pump units are installed.
- 2.3 Premises are cleared of all surplus introduced materials and equipment and left in a clean and tidy condition.
- 2.4 Work documentation is completed.

<b>Replacement information</b>	This unit standard and unit standard 29927, unit standard 28828, and unit standard 28830 replaced unit standard 18434.
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<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.