

<b>Title</b>	<b>Identify and utilise installed fire systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe installed fire systems; identify and locate installed fire systems; and utilise installed fire systems to support fire-fighting activities.
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<b>Classification</b>	Fire and Rescue Services > Fire and Rescue Services - Generic Fire Fighting
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory.
- 2 Assessment against this unit standard may take place under real or practical simulated conditions.
- 3 Assessment for this unit standard must include evidence of the candidate's underpinning knowledge and understanding of systems' principles of operation, characteristics, and limitations; and the integration of system operation with other fire and emergency activities.
- 4 Legislation applying to this unit standard includes the Building Act 2004, and its subsequent amendments.
- 5 New Zealand standards applying to this unit standard include NZS 4512:2003 *Fire detection and alarm systems in buildings*, NZS 4541:1996 *Automatic fire sprinkler systems*, and NZS 4515:2003 *Fire sprinkler systems for residential occupancies*.

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### Outcomes and performance criteria

#### Outcome 1

Describe installed fire systems.

#### Performance criteria

- 1.1 Passive and active installed fire systems are described in terms of differences in function.

- 1.2 Types of passive installed fire systems are described in terms of fire resisting building construction techniques and warning and egress signage.
- 1.3 The types of active installed fire systems are described in terms of their application.
- Range detector systems, suppression systems, occupant protection systems, fire service fixed systems.
- 1.4 Installed fire systems are described in terms of their effect on firefighting activities.

## Outcome 2

Identify and locate installed fire systems.

Range minimum of six from – wet and dry sprinkler and deluges systems, automatic and manual fire alarm systems, total flooding extinguishing agent systems, automatic and manual mechanical ventilation systems, air handling systems, emergency warning and intercommunications systems.

### Performance criteria

- 2.1 Types of installed fire systems are identified from pre-fire planning, and from on-site inspection.
- 2.2 Installed fire system control and indicating panels are located and manned in accordance with fire and rescue service provider's procedures to facilitate their use in supporting fire fighting operations.

## Outcome 3

Utilise installed fire systems to support fire-fighting activities.

Range evidence is required for two activities – fire location, evacuation, rescue, fire suppression, damage limitation.

### Performance criteria

- 3.1 Fire systems are utilised in accordance with legislative requirements, fire and rescue service provider's procedures, NZ standards, and manufacturer's instructions and specifications.
- 3.2 System faults are reported to the Officer in Charge in accordance with fire and rescue service provider's procedures.

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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

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

Process	Version	Date	Last Date for Assessment
Registration	1	30 April 1998	31 December 2025
Revision	2	2 August 1999	31 December 2025
Review	3	25 March 2004	31 December 2025
Review	4	23 April 2008	31 December 2025
Review	5	30 September 2021	31 December 2025

**Consent and Moderation Requirements (CMR) reference**

0039

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

This unit standard is expiring.