

<b>Title</b>	<b>Demonstrate knowledge of commissioning tests and procedures for special hazards fire detection and alarm systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This unit standard is for the training of fire alarm technicians and covers knowledge of commissioning of special hazards fire detection and alarm systems.</p> <p>People credited with this unit standard are able to demonstrate knowledge of commissioning tests and procedures for special hazards fire detection and alarm systems.</p>
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<b>Classification</b>	Mechanical Engineering > Fire Detection and Alarm 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,  
 Electricity Act 1992,  
 Electricity (Safety) Regulations 2010,  
 Ministry of Business, Innovation and Employment (MBIE) *Acceptable Solutions (AS) and Verification Methods (VM)*,  
 New Zealand Building Code,  
 AS/NZS 3000:2018, *Electrical Installations* (known as the Australian/New Zealand Wiring Rules),  
 NZS 4512:2021, *Fire Detection and Alarm Systems in Buildings*.
- Definitions  
*Fire detection and alarm system* refers to an installation of apparatus, which performs specified fire related functions in response to the operation of a detector, manual call point, or other input. It includes – manual call points, detectors, control and indication equipment, alerting devices, interconnections, fittings, labels, energy sources, and remote signalling device and may include emergency warning and intercommunication systems (EWIS) where applicable.  
*Special hazards fire detection and alarm system* refers to fire detection and alarm systems which apply electrical actuation to operate mechanical extinguishing systems. It includes water based, chemical, and clean agent gas flood installations.  
*Standards* refer to NZS 4512:2021, ANS/NZS 3000:2018 and to standards relevant to special hazard systems.

*Systems documentation* refers to the documentation required to be maintained by NZS 4512:2021 and other relevant standards, including log book, test reports, equipment details and drawings, specifications, contract agreement, software configurations and versions, additions and alterations, fire reports, building consents standards, codes of practice, installation instructions, test and commissioning procedures, test and maintenance records.

### 3 Assessment information

Use of NZS 4512:2021 and AS/NZS 3000:2018 by candidates during assessment is encouraged.

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of commissioning tests and procedures for special hazards fire detection and alarm systems.

Range gas flood systems, pre-action, deluge.

### Performance criteria

- 1.1 Visual tests are described in accordance with the standards.
- 1.2 Electrical tests are described in accordance with the standards.
- 1.3 Procedures for downloading and uploading of programmes for a typical addressable system are outlined in accordance with equipment specifications.
- 1.4 Functional tests are described in accordance with the standards.
- 1.5 Documentation and certification requirements are described in accordance with the standards and systems documentation.

<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>.

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**Comments on this unit standard**

Please contact the Hanga-Aro-Rau Manufacturing, Engineering and Logistics WDC [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.