

<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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### Explanatory notes

#### 1 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>

Electricity Act 1992

Electricity Regulations 1997

New Zealand Building Code

AS/NZS 3000:2007, *Electrical Installations* (known as the Australian/New Zealand Wiring Rules)

NZS 4512:2010, *Fire Detection and Alarm Systems in Buildings*.

#### 2 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 s.

*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 4512:2010, ANS/NZS 3000:2007 and to standards relevant to special hazard systems.

*Systems documentation* refers to the documentation required to be maintained by NZS 4512:2010 and other relevant standards, including log book, test reports, equipment details and drawings, specifications, contract agreement, software

configurations and versions, additions and alterations, contract agreement, fire reports, building consents standards, codes of practice, installation instructions, test and commissioning procedures, test and maintenance records.

### 3 Assessment

Use of NZS 4512:2010 and AS/NZS 3000:2007 by candidates during assessment is encouraged.

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## Outcomes and evidence requirements

### Outcome 1

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

Range gas flood systems, pre-action, deluge.

### Evidence requirements

- 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 2020
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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	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>.

### 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.

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### **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.