

Title	Demonstrate knowledge of checking and testing of fire detection and alarm systems		
Level	3	Credits	9

Purpose	<p>This unit standard is for the training of fire alarm technicians, and covers the underpinning knowledge needed for the performance of monthly and annual checks and tests in accordance with standard NZS 4512:2010, Part 6. Both conventional and addressable devices are included.</p> <p>People credited with this unit standard are able to, for fire detection and alarm systems, demonstrate knowledge of: general requirements for maintaining systems in compliance and good working order; monthly checks and tests; and annual checks and tests.</p>
----------------	---

Classification	Mechanical Engineering > Fire Detection and Alarm Systems
-----------------------	---

Available grade	Achieved
------------------------	----------

Explanatory notes

- 1 This standard is for underpinning knowledge of monthly and annual checks and tests as defined in NZS 4512:2010, Part 6.
Unit standard 23262 covers the practical performance of checks and tests.
- 2 Reference
NZS 4512:2010, *Fire Detection and Alarm Systems in Buildings*.
- 3 Definitions
Annual checks and tests are also referred to as annual surveys.
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 devices and may include emergency warning and intercommunication systems (EWIS) where applicable.
Standards refer to NZS 4512:2010, and to standards relevant to special hazards systems where used.
Tests refer to the carrying out of operations, measurements, or functions to confirm correct function or performance of components and systems in accordance with NZS 4512:2010.
- 4 Assessment
Use of standard listed in the reference by candidates during assessment is encouraged.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of general requirements for maintaining fire detection and alarm systems in compliance and good working order.

Evidence requirements

- 1.1 General requirements for maintaining systems in compliance and good working order are identified in accordance with the standard.
- 1.2 Relationships between building owners and contractors are outlined in accordance with contract documents and the standard.
- 1.3 Procedures to be followed in the event of defects discovered during testing are outlined.

Outcome 2

Demonstrate knowledge of monthly checks and tests for fire detection and alarm systems.

Evidence requirements

- 2.1 Monthly checks and tests are identified in accordance with the standard.
- 2.2 Monthly checks and tests are explained with reference to both conventional and addressable systems.
- 2.3 Documentation required by the standard and by typical testing companies is described.

Outcome 3

Demonstrate knowledge of annual checks and tests for fire detection and alarm systems.

Evidence requirements

- 3.1 Annual checks and tests are identified in accordance with the standard.
- 3.2 Annual checks and tests are explained with reference to both conventional and addressable systems.
- 3.3 The number of heat detectors to be tested is calculated for different scenarios in accordance with the standard.
- 3.4 Documentation required by the standard and by typical testing companies is described.

Replacement information	This unit standard replaced unit standard 17721 and unit standard 17722.
--------------------------------	--

Planned review date	31 December 2020
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 October 2006	31 December 2017
Review	2	15 October 2015	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.