

Title	Conduct routine tests of fixed fire protection systems		
Level	3	Credits	20

Purpose	<p>This unit standard is for personnel employed in the fire protection industry, and covers the routine tests of fixed fire protection systems.</p> <p>People credited with this unit standard are, for fixed fire protection systems, able to: prepare for routine tests; conduct routine tests, and complete documentation for reporting after routine tests.</p>
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Classification	Mechanical Engineering > Fixed Fire Protection Systems
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Available grade	Achieved
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Explanatory notes

- 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>
 New Zealand Building Code
 NZS 4510:2008, *Fire hydrant systems for buildings*
 NZS 4515:2009, *Fire sprinklers for life safety in sleeping occupancies*
 NZS 4541:2013, *Automatic fire sprinkler systems*.
- Definitions

Enterprise 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.

Plan in this unit standard means the procedures developed to enable the work to be carried out in a logical and safe manner.

Standards refer to NZS 4510:2008, NZS 4515:2009, and NZS 4541:2013.

Systems documentation refers to the documentation required to be maintained by NZS 4541:2013, including log book, 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 tests records.

Tests refer to the carrying out of operations, measurements, or functions to confirm correct function or performance of components and systems in accordance with the standards.

3 Range

- a All activities must comply with relevant legislative and/or regulatory requirements and recognised codes of practice.
- b All activities demonstrate safe working practices.
- c All activities must be completed and reported within agreed timeframes.

4 Assessment

For assessment purposes, competence must be demonstrated on at least ten systems including pumped systems.

Outcomes and evidence requirements

Outcome 1

Prepare for routine tests of fixed fire protection systems.

Evidence requirements

- 1.1 Routine test procedures for the systems are identified in accordance with systems documentation, enterprise procedures, and relevant sections of the appropriate standards.
- 1.2 Safety requirements for the systems are identified and referenced to the systems documentation in accordance with enterprise procedures.
- 1.3 Plans for routine tests of the systems are prepared in accordance with systems documentation and enterprise procedures.

Outcome 2

Conduct routine tests of fixed fire protection systems.

Evidence requirements

- 2.1 Routine tests are conducted in accordance with plans and relevant sections of the appropriate standards.
- 2.2 All gauge and instrument readings recorded during routine testing are compared to the reference information supplied in the relevant sections of the appropriate standards.
- 2.3 Safety requirements are complied with during the routine testing process in accordance with systems documentation and enterprise procedures.
- 2.4 Systems are restored to normal operating condition in accordance with systems documentation, plans, and enterprise procedures.

Outcome 3

Complete documentation for reporting after routine tests of fixed fire protection systems.

Evidence requirements

- 3.1 Documentation for routine tests is completed, and distributed in accordance with plans, enterprise procedures, and relevant sections of the appropriate standards.

Planned review date	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

Consent and Moderation Requirements (CMR) reference	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.

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.