

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 able to: prepare for routine tests of fixed fire protection systems; conduct routine tests of fixed fire protection systems; complete documentation for reporting after routine tests of fixed fire protection systems.</p>
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Classification	Mechanical Engineering > Fixed Fire Protection Systems
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Available grade	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,
 Building (Forms) Regulations 2004,
 Ministry of Business, Innovation and Employment (MBIE) *Acceptable Solutions (AS) and Verification Methods (VM)*,
 MBIE New Zealand Building Code Handbook,
 NZS 4510:2022, *Fire hydrant systems for buildings*,
 NZS 4515:2009, *Fire sprinkler systems for residential occupancies*,
 NZS 4541:2020, *Automatic fire sprinkler systems*.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Definitions**

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 4510:2022, NZS 4515:2009, and NZS 4541:2020.

Systems documentation refers to the documentation required to be maintained by NZS 4541:2020, including logbook, 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.

Workplace 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.

3 Assessment Information

- 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.
- d. All activities must be done in accordance with applicable plans, systems documentation, workplace procedures, and relevant sections of the appropriate standards.

4 Range

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

Outcomes and performance criteria

Outcome 1

Prepare for routine tests of fixed fire protection systems.

Performance criteria

- 1.1 Routine test procedures for the systems are identified.
- 1.2 Safety requirements for the systems are identified and referenced to the systems documentation.
- 1.3 Plans for routine tests of the systems are prepared.

Outcome 2

Conduct routine tests of fixed fire protection systems.

Performance criteria

- 2.1 Routine tests are conducted.
- 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.
- 2.4 Systems are restored to normal operating condition.

Outcome 3

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

Performance criteria

3.1 Documentation for routine tests is completed, and distributed.

Planned review date	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

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>.

Comments on this unit standard

Please contact the Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.