

<b>Title</b>	<b>Supervise fire protection industry jobs/operations</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>30</b>

<b>Purpose</b>	<p>This unit standard is for supervisors with responsibility for workshop and site operations, preparation, personnel, equipment, inspection of products, and functions/activities within the fire protection industry such as installation, commissioning, testing, maintenance, inspection, and servicing of fire protection systems. They would typically have had training in workplace supervision and will have worked as a leading hand or in a similar role in the fire protection industry.</p> <p>People credited with this unit standard are able to: prepare for fire protection industry jobs/operations as a supervisor; supervise personnel in the performance of fire protection industry jobs/operations; and inspect and document completion of jobs/operations.</p>
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<b>Classification</b>	Mechanical Engineering > Fixed Fire Protection Systems
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<b>Available grade</b>	Achieved
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### Explanatory notes

- References
  - Building Act 2004
  - Department of Building and Housing compliance documents for the New Zealand Building Code (compliance documents). Available at <http://www.dbh.govt.nz/AS/VM-documents>
  - Electricity (Safety) Regulations 2010
  - Health and Safety in Employment Act 1992
  - New Zealand Building Code
  - AS/NZS 3000:2007, *Electrical installations* (known as the Australian/New Zealand Wiring Rules)
  - AS 4214:2006, *Gaseous fire extinguishing systems*
  - AS 4587:2003, *Water mist fire protection systems - System design, installation and commissioning*
  - AS ISO 14520.1-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - General requirements*
  - AS ISO 14520.2-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - CF3I extinguishant*
  - AS ISO 14520.6-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - HCFC Blend A extinguishant*
  - AS ISO 14520.9-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - HFC 227ea extinguishant*

AS ISO 14520.10-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - HFC 23 extinguishant*  
AS ISO 14520.14-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - IG-55 extinguishant*  
AS ISO 14520.15-2009, *Gaseous fire-extinguishing systems - Physical properties and system design - IG-541 extinguishant*  
NFPA 12:2011, *Carbon dioxide extinguishing systems*  
NFPA 15:2012, *Water spray fixed systems for fire protection*  
NFPA 16:2011, *Installation of foam-water sprinkler and foam-water spray systems*  
NFPA 17:2013, *Dry chemical extinguishing systems*  
NFPA 17A:2013, *Wet chemical extinguishing systems*  
NFPA 750:2010, *Water mist fire protection systems*  
NFPA 2001:2012, *Clean agent fire extinguishing systems.*  
NZS 4503:2005, *Hand operated fire-fighting equipment*  
NZS 4512:2010, *Fire detection and alarm systems in buildings*  
NZS 4517:2010, *Fire sprinkler systems for houses*  
NZS 4541:2013, *Automatic fire sprinkler systems.*

## 2 Definitions

*Functions* within fire protection industry jobs/operations include but are not limited to installation, commissioning, testing, maintenance, and servicing of fire detection and alarm systems, fixed fire protection systems, hand operated fire fighting equipment, and passive fire protection systems.

*Job specifications* refer to instructions relevant to the safe completion of the specific task, such as technical specifications, assembly instructions, drawings, parts lists, standards, codes of practice, test and commissioning procedures, and verbal instructions.

*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.

*Systems documentation* refers to the documentation required to be maintained by NZS 4541:2013, NZS 4512:2010, NZS 4503:2005, and/or other relevant standards listed in the references, 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 maintenance records.

## 3 Range

All activities must comply with relevant legislative and/or regulatory requirements and recognised codes of practice.

## 4 Assessment

For assessment purposes, competence must be demonstrated on at least three different jobs/operations, involving at least three functions. A job may be part of a larger project.

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## Outcomes and evidence requirements

**Outcome 1**

Prepare for fire protection industry jobs/operations as a supervisor.

**Evidence requirements**

- 1.1 Job specifications and systems documentation are assembled, analysed, and confirmed or modified in accordance with enterprise procedures.
- 1.2 Details of jobs are planned in accordance with enterprise procedures.  
  
Range details may include but are not limited to – ordering and procurement; materials; resources; personnel; timing; availability of tools and machines; finishing; staff training; certifications; product storage.
- 1.3 Potential hazards are identified and their management planned in accordance with enterprise procedures and safety guidelines.
- 1.4 Inspection procedures are established in accordance with job specifications, enterprise procedures and relevant standards.
- 1.5 Details of the specific tasks required to complete the job are communicated to others in accordance with enterprise procedures.

**Outcome 2**

Supervise personnel in the performance of fire protection industry jobs/operations.

**Evidence requirements**

- 2.1 Personnel is instructed and supervised to ensure that enterprise procedures and safety guidelines are followed.
- 2.2 Supervision of personnel ensures that all work done is in accordance with job specifications and relevant standards.
- 2.3 Feedback is provided to personnel where problems are identified and adjustments required in accordance with enterprise procedures.

**Outcome 3**

Inspect and document completion of jobs/operations.

**Evidence requirements**

- 3.1 Work is inspected for compliance with job specifications and relevant standards, and arrangements are made for corrections, if required, in accordance with enterprise procedures.
- 3.2 Completion of work are documented and communicated to relevant parties in accordance with enterprise procedures and relevant standards.

<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	21 July 2011	31 December 2017
Review	2	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.

#### Comments on this unit standard

Please contact Competenz on [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.