

Title	Demonstrate knowledge of passive fire protection safety documentation and potential conflicts		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of: fire safety design reports; architectural drawings; building service drawings; and comparing fire safety design reports, architectural drawings and building services drawings as they relate to PFP.
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Classification	Mechanical Engineering > Passive Fire Protection
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:
 - [Building Act 2004](#),
 - [New Zealand Building Code](#),
 - [Building \(Forms\) Regulations 2004](#),
 - [Health and Safety at Work Act 2015](#),
 - [Ministry of Business, Innovation and Employment \(MBIE\) New Zealand Building Code Handbook](#).

NZS/AS 1100.101:1992, Technical drawing – General principles,
 NZS/AS 1100.201:1992, Technical drawing – Mechanical engineering drawing,
 An abridgement of these standards, suitable for the purposes of this unit standard, is SAA/SNZ HB1: 1994, Technical Drawing for students.
 AS 1851-2012 Routine service of fire protection systems and equipment.
 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.
- 2 Definitions

Passive fire protection (PFP) refers to components or systems of a building or structure that slow or impede the spread of the effects of fire or smoke without system activation, and usually without movement. Examples of passive systems include floor-ceilings and roofs, fire doors, windows, and wall assemblies, fire-resistant coatings, and other fire and smoke control assemblies. Passive fire protection systems can include active components such as fire dampers.

Workplace procedures – refer to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace, and are consistent with manufacturer’s requirements. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor’s instructions, and procedures to comply with legislative and local body requirements relevant to this sector.

3 Assessment information

All activities must comply with any policies, procedures, business protocols, and requirements of the organisation/s involved, and ethical codes and standards of relevant professional bodies.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of fire safety design reports as they relate to PFP.

Performance criteria

1.1 Fire safety design reports are interpreted and passive fire features are identified.

Range includes but is not limited to – locations of fire separations, fire and smoke ratings, penetration locations, services risers, lift shafts, project specific requirements.

Outcome 2

Demonstrate knowledge of architectural drawings as they relate to PFP.

Performance criteria

2.1 Passive fire components within architectural drawings are located and their features are interpreted.

Range includes but is not limited to – services risers, lift shafts, plasterboard junctions, load-bearing walls, fire-rated walls, ceilings, floors, openings, and doors.

Outcome 3

Demonstrate knowledge of building services drawings as they relate to PFP.

Performance criteria

3.1 Building services drawings and schematics are interpreted, and components are located.

Range includes but is not limited to – pipes, mechanical and HVAC services, cables, cable trays, conduits, flush boxes, switchboards, hydraulic pipes, plumbing, fire protection.

Outcome 4

Demonstrate knowledge of comparing fire safety design reports, architectural drawings and building services drawings as they relate to PFP.

Performance criteria

4.1 The information found in, and the importance of comparing fire safety design reports, architectural drawings, and building services drawings as they relate to PFP are described.

4.2 Conflicts or missing information are identified and reviewed in accordance with workplace procedures.

4.2 Identified issues are reported and communicated in accordance with workplace procedures.

Planned review date	31 December 2028
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 March 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.