

Title	Manage ventilation operations to assist fire and rescue operations		
Level	5	Credits	6

Purpose	People credited with this unit standard are able to: demonstrate knowledge of effective use of ventilation and its relationship to building construction type; and manage ventilation operations at an emergency incident.
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Classification	Fire and Rescue Services > Fire and Rescue Services - Structural and Industrial
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Available grade	Achieved
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Prerequisites	Unit 20394, <i>Apply basic ventilation techniques to assist fire and rescue operations</i> , or demonstrate equivalent knowledge or skills.
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Guidance Information

- 1 Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory.
- 2 Assessment against this unit standard may take place under real or practical simulated conditions.
- 3 Definition
Fire and rescue service provider's requirements refer to policies and procedures on safety and operation set down by each fire and rescue service employer or host organisation.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of effective use of ventilation and its relationship to building construction type.

Performance criteria

- 1.1 The benefits to fire and rescue operations associated with ventilation are explained in accordance with the fire and rescue service provider's requirements.

- 1.2 The hazards associated when applying ventilation are explained in accordance with the fire and rescue service provider’s requirements.
- 1.3 Tactical options that use forced ventilation are explained in accordance with the fire and rescue service provider’s requirements.
- 1.4 Methods of ventilation that are used to reduce smoke, fumes, and heat from compartments and/or structures are explained in accordance with the fire and rescue service provider’s requirements.
- Range a minimum of three of – single storey dwellings, multi-storey buildings, large open span complexes, basements, tunnels, pits.
- 1.5 In-built systems and components that provide protection to compartments and exit paths are explained in accordance with the fire and rescue service provider’s requirements.
- Range a minimum of three of – smoke stop systems, pressurisation systems, ventilation systems, fire damper systems.

Outcome 2

Manage ventilation operations at an emergency incident.

Performance criteria

- 2.1 Ventilation methods are selected to assist fire and rescue operations in accordance with the fire and rescue service provider’s requirements.
- 2.2 Structures are ventilated in accordance with the fire and rescue service provider’s requirements.
- Range a minimum of three of the following structures – single storey dwellings, multi-storey buildings, large open span complexes, basements, tunnels, pits.
- 2.3 The performance and safety of ventilation crews is managed in accordance with the fire and rescue service provider’s requirements.
- 2.4 The ongoing conditions involving the development of smoke, fumes, and heat and their effect on ventilation operations are managed in accordance with the fire and rescue service provider’s requirements.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 December 1999	31 December 2025

Process	Version	Date	Last Date for Assessment
Review	2	25 March 2004	31 December 2025
Review	3	20 November 2009	31 December 2025
Review	4	30 September 2021	31 December 2025

Consent and Moderation Requirements (CMR) reference	0039
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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