

Manage ventilation operations to assist fire and rescue operations

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| 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. |
| Subfield | Fire and Rescue Services |
| Domain | Fire and Rescue Services - Structural and Industrial |
| Status | Registered |
| Status date | 20 November 2009 |
| Date version published | 20 November 2009 |
| Planned review date | 31 December 2014 |
| Entry information | Prerequisite: Unit 20394, <i>Apply basic ventilation techniques to assist fire and rescue operations</i> , or demonstrate equivalent knowledge or skills. |
| Accreditation | Evaluation of documentation and visit by NZQA and industry. |
| Standard setting body (SSB) | Fire and Rescue Services Industry Training Organisation |
| Accreditation and Moderation Action Plan (AMAP) reference | 0039 |

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special notes

- 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.

Elements and performance criteria

Element 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.

Element 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.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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 the Fire and Rescue Services Industry Training Organisation info@frsito.org.nz if you wish to suggest changes to the content of this unit standard.