
**FIRE AND RESCUE SERVICES -
STRUCTURAL AND INDUSTRIAL**
**Apply ventilation techniques to assist
fire and rescue operations**

level:	5
credit:	6
final date for comment:	March 2008
expiry date:	December 2009
sub-field:	Fire and Rescue Services
purpose:	People credited with this unit standard are able to: demonstrate knowledge of effective use of ventilation and the relationships between the construction types; and apply and supervise ventilation techniques used in fires and other emergencies of a confined nature.
entry information:	Prerequisite: Unit 20394, <i>Apply basic ventilation techniques to assist fire and rescue operations</i> , or demonstrate equivalent knowledge or skills.
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A national moderation system of moderation networks has been established by the Fire and Rescue Services Industry Training Organisation.
special notes:	<ol style="list-style-type: none">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.

**FIRE AND RESCUE SERVICES -
STRUCTURAL AND INDUSTRIAL**
**Apply ventilation techniques to assist
fire and rescue operations**

- 3 Organisational procedures refer to NZ Fire Service Manual of Operations Vol. 2, National Commander's Instruction No. 8, or similar fire service provider publications that allow for the safe and effective use of ventilation techniques to assist fire and rescue operations.
- 4 *Fire and rescue service provider's requirements or Standard Operating Procedures (SOPs)* 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 the relationships between the construction types.

performance criteria

- 1.1 The benefits associated with ventilation are explained in accordance with the SOPs.
- 1.2 The hazards associated when applying ventilation are explained in accordance with the SOPs.
- 1.3 Tactical options with forced ventilation are explained in accordance with the organisational procedures.

**FIRE AND RESCUE SERVICES -
STRUCTURAL AND INDUSTRIAL**
**Apply ventilation techniques to assist
fire and rescue operations**

- 1.4 Methods of ventilation applied for reducing smoke, fumes, and heat from compartments and/or structures are explained in accordance with the organisational procedures.
- Range: single storey dwellings, multi-storey buildings, large open span complexes, basements, tunnels, pits.
- 1.5 Manual ventilation techniques that may be applied to various construction types are explained in accordance with the organisational procedures.
- Range: single story dwellings, multi-story buildings and/or structures, large open span complexes, basements, tunnels, pits.
- 1.6 In-built systems and components that provide protection to compartments and exit paths are explained in accordance with the SOPs.
- Range: smoke stop systems, pressurisation systems, ventilation systems, fire damper systems.

element 2

Apply and supervise ventilation techniques used in fires and other emergencies of a confined nature.

performance criteria

- 2.1 Ventilation methods are selected to assist fire and rescue operations in accordance with the organisational procedures.
- 2.2 Structures are ventilated in accordance with the organisational procedures.
- Range: minimum of three from the following: single story dwellings, multi-story buildings, large open span complexes, basements, tunnels, pits.

**FIRE AND RESCUE SERVICES -
STRUCTURAL AND INDUSTRIAL**
**Apply ventilation techniques to assist
fire and rescue operations**

- 2.3 The performance and safety of ventilation crews are supervised in accordance with the organisational procedures.
- 2.4 The ongoing conditions involving the development of smoke, fumes, and heat and their effect on ventilation operations are supervised in accordance with the SOPs.

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.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority 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 providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0039 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.