
**FIRE AND RESCUE SERVICES -
STRUCTURAL AND INDUSTRIAL**
**Wear and operate breathing apparatus
in specialist emergencies**

level:	4
credit:	6
final date for comment:	March 2008
expiry date:	December 2009
sub-field:	Fire and Rescue Services
purpose:	<p>This unit standard is for fire and rescue personnel in situations requiring the use of self-contained breathing apparatus (BA) primarily for aggressive interior fire attack and other emergencies.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of the human respiratory system, and the procedures to be followed when wearing BA; perform breathing apparatus control procedures in an emergency operation; wear BA in emergency operation situations; manage BA for safe use and survivability in fire and rescue operations; and shut down and re-commission BA and specialist equipment.</p>
entry information:	Prerequisite: Unit 3272, <i>Wear and operate breathing apparatus in general emergencies</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:	1 Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory.

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- 2 Safety legislation applying to this unit standard is the Health and Safety in Employment Act 1992, OSH Guidelines, and their subsequent amendments.
- 3 Assessment against this unit standard may take place under real or practical simulated situations.
- 4 Confined space is as defined in AS/NZ 2865:2001 *Safe working in a confined space*, and any activities within a confined space must conform to the foresaid standard.
- 5 The maintenance and use of this equipment must comply with AS/NZ 1715:1994 *Selection, use and maintenance of respiratory protective devices*.
- 6 Gaining credit for this unit standard will require the successful completion of the approved NZ Fire Service or NZ Defence Force breathing apparatus training course.
- 7 *Specialist equipment* refers to the following: air lines, fully encapsulating suits, splash suits, BA main guide line.
- 8 *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.

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Elements and Performance Criteria

element 1

Demonstrate knowledge of the human respiratory system, and the procedures to be followed when wearing BA.

performance criteria

- 1.1 The physiology of breathing and associated conditions of the human body are described and explained in accordance with SOPs.
Range: respiration, asphyxiation, stress, stroke, exhaustion.
- 1.2 The responsibilities associated with control officers for BA are listed and described in accordance with the requirements of the fire and rescue service provider.
Range: entry control officer (ECO), breathing apparatus control officer (BACO).
- 1.3 Hazards associated with the wearing of BA are described in accordance with SOPs.
Range: extreme cold, under water, set failure.
- 1.4 Procedures associated with the wearing of BA and explained in accordance with SOPs.
Range: guidelines, testing, safety, set failure, search, emergency evacuation.
- 1.5 Standard tests for SCBA and specialist equipment used in specialist BA operations are explained in accordance with special note 5 and the requirements of the fire and rescue service provider.
Range: type, frequency.

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element 2

Perform breathing apparatus control procedures in an emergency operation.

performance criteria

- 2.1 Rapid deployment boards where supplied are managed in accordance with the requirements of the fire and rescue service provider
- 2.2 Stage 1 control (ECO) is managed in accordance with the requirements of the fire and rescue service provider.
- Range: entry control board, tallies, relief crews, rescue teams, emergency procedures, communications, resource requirements, main line use, branch line use.
- 2.3 Stage 2 control (BACO) is managed in accordance with the requirements of the fire and rescue service provider.
- Range: relief crews, rescue teams, emergency procedures, communications, resource requirements.

element 3

Wear BA in emergency operation situations.

performance criteria

- 3.1 Personal protective clothing is selected and worn for firefighting situations in accordance with SOPs.
- Range: hot, cold.
- 3.2 Personal protective equipment is selected and worn for hazardous substance emergencies in accordance with SOPs.
- Range: splash suits, fully encapsulating suits air lines (where supplied).
- 3.3 BA main guidelines are established and used in accordance with SOPs.

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3.4 Search procedures are carried out in accordance with SOPs.

element 4

Manage BA for safe use and survivability in emergency fire and rescue operations.

performance criteria

4.1 The environment is continually assessed in accordance with the requirements of the fire and rescue service provider.

Range: incident development, structural hazards, general hazards.

4.2 Air supply is managed in accordance with the nature of the incident and the requirements of the fire and rescue service provider.

Range: self, crew, task.

4.3 Entrapment procedures are demonstrated in accordance with the requirements of the fire and rescue service provider.

Range: self, crew.

element 5

Shut down and re-commission BA and specialist equipment.

performance criteria

5.1 Shut down BA in accordance with the requirements of the fire and rescue service provider.

5.2 Report and relay information to entry control officer in accordance with the requirements of the fire and rescue service provider.

5.3 Re-commission set and specialist equipment in accordance with the requirements of the fire and rescue service provider.

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- 5.4 Documentation is completed in accordance with the requirements of the fire and rescue service provider.

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>.