

PROPOSED AMENDMENTS FOR PART 8: PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT AND PART 31: FIREFIGHTING IN THE OCCUPATIONAL HEALTH AND SAFETY REGULATION

PART 8: PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT

Definitions	8.1	In this Part
“fit check”		Repealed.
“fit test”		Repealed.

RESPIRATORY PROTECTION

Protection factors	8.34	A respirator must not be used for protection against concentrations of an air contaminant greater than the maximum use concentration, which is the concentration determined by multiplying the exposure limit for the air contaminant by the appropriate respirator protection factor selected from Table 8-1, or as otherwise determined by the Board.
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Table 8-1: Respirator protection factors

Respirator type	Protection Factor
Air purifying	
Half facepiece, non-powered	10
Full facepiece, non-powered	50
Full facepiece, powered (PAPR), equipped with HEPA filters for exposure to asbestos	100
Loose-fitting facepiece, powered (PAPR)	25
Full facepiece, powered (PAPR), equipped with HEPA filters and/or sorbent cartridge or canister for exposure to contaminants other than asbestos	1 000
Air supplying	
Airline - demand (negative pressure)	
Half facepiece	10
Full facepiece	50
Airline - continuous flow	
Loose-fitting facepiece/hoods	25
Half facepiece	50
Full facepiece	1 000
Helmet/hood	1 000
Airline - pressure demand (positive pressure)	
Half facepiece	50
Full facepiece	1 000
Full facepiece, with egress bottle	10 000
Self-contained breathing apparatus (SCBA)	
Demand (negative pressure)	50
Pressure demand (positive pressure)	10 000
Other factors such as warning properties, IDLH levels, and cartridge/canister limitations must also be taken into account when determining the maximum use concentration. Refer to the manufacturer's instructions and standards acceptable to the Board for further information.	

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| Respirable air quality | 8.37 | <p>(1) Compressed breathing air supplied for equipment such as an SCBA and a supplied air respirator must be tested at least annually to ensure that the air being supplied meets the requirements of <i>CSA Standard CAN/CSA-Z180.1-00, Compressed Breathing Air and Systems</i>.</p> <p>(2) If an SCBA cylinder has not been used for a period in excess of one year, air in the cylinder must be slowly depressurized to atmosphere and refilled with compressed breathing air that meets the requirements of <i>CSA Standard CAN/CSA-Z180.1-00, Compressed Breathing Air and Systems</i>.</p> |
| Corrective eyewear | 8.38 | <p>(1) If a worker who wears prescription eyeglasses is required to wear a full facepiece respirator, the employer must assess the work to be performed, and provide appropriate specialty corrective eyewear if necessary to ensure that the work can be performed safely.</p> <p>(2) The employer may permit the use of contact lenses by a worker who is required to wear a full facepiece respirator if their use is not likely to adversely affect the health or safety of the worker.</p> |
| Face seal | 8.39 | <p>(1) Except for specialty eyewear approved by the Board for use with positive pressure full facepiece respirators, nothing is permitted which intrudes between the facepiece and the face, or which interferes with the face seal of the facepiece.</p> <p>(2) A worker required to wear a respirator which requires an effective seal with the face for proper functioning must be clean shaven where the respirator seals with the face.</p> |
| Fit tests | 8.40 | <p>(1) A respirator which requires an effective seal with the face for proper functioning must not be issued to a worker unless a fit test demonstrates that the facepiece forms an effective seal with the wearer's face.</p> <p>(2) Fit tests must be performed in accordance with procedures in <i>CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators</i>.</p> <p>(2.1) A fit test must be carried out</p> <ul style="list-style-type: none">(a) before initial use of a respirator,(b) at least once a year,(c) whenever there is a change in respirator facepiece, including the brand, model, and size, and(d) whenever changes to the user's physical condition could affect the respirator fit. <p>(3) Other personal protective equipment that is to be worn at the same time as a respirator and which could interfere with the respirator fit must be worn during a fit test.</p> <p>(4) Repealed.</p> |
| User seal check | 8.41 | <p>(1) Before each use of a respirator which requires an effective seal with the face for proper functioning, a worker must perform a positive or negative pressure user seal check in accordance with <i>CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators</i>.</p> <p>(2) Subsection (1) does not apply to the emergency use of an escape respirator.</p> |

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- Optional use** **8.43** In circumstances where section 8.32 does not apply, and either an employer chooses to provide a respirator to a worker or the worker chooses to use a personal respirator, then the requirements of sections 8.3, 8.7 and 8.33 (2) apply.
- Records** **8.44** The employer must maintain a record of
- (a) fit test results and worker instruction,
 - (b) maintenance for air supplying respirators, powered air purifying respirators, and for sorbent cartridges and canisters, and
 - (c) maintenance and repairs for each self-contained breathing apparatus and all air cylinders in accordance with the requirements of *CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators*.
- Maintenance and inspections** **8.45** (1) Inspection of compressed air cylinders must be done in accordance with *CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators*.
- (2) Self-contained breathing apparatus, including regulators, must be serviced and repaired by qualified persons.
 - (3) Compressed air cylinders must be hydrostatically tested in accordance with *CSA Standard CAN/CSA-B339-96, Cylinders, Spheres, and Tubes for the Transportation of Dangerous Goods*.

Note:

Amendments have been proposed only for the following sections relating to respirator protection in Part 8:

- 8.1
- 8.34
- 8.37
- 8.40
- 8.41
- 8.44
- 8.45

The other sections relating to respirator protection in Part 8 are provided here for reading convenience only.

PART 31: FIREFIGHTING

RESPIRATORY PROTECTION

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| General | 31.19 | Firefighters who may be exposed to an oxygen deficient atmosphere or to harmful concentrations of air contaminants must wear a self-contained breathing apparatus of a positive pressure type having a rated minimum duration of 30 minutes. |
| Fitness to use SCBA | 31.20 | <p>A physician's certificate of fitness to use self-contained breathing apparatus must be provided to the employer by a firefighter who</p> <ul style="list-style-type: none">(a) experiences breathing difficulty while using the apparatus, or(b) is known to have heart disease, impaired pulmonary function, or any other condition that might make it dangerous for the firefighter to use self-contained breathing apparatus. |
| Operation of SCBA | 31.21 | Respirators must be used in accordance with <i>CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators</i> , Clause 9.1. |
| Sealing and fit testing | 31.22 | <ul style="list-style-type: none">(1) Firefighters who use a self-contained breathing apparatus must be clean shaven to ensure that the mask forms a positive seal against the face.(2) Fit tests must be performed in accordance with procedures in <i>CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators</i>.<ul style="list-style-type: none">(2.1) A fit test must be carried out<ul style="list-style-type: none">(a) before initial use of a respirator,(b) at least once a year,(c) whenever there is a change in respirator facepiece, including the brand, model, and size, and(d) whenever changes to the user's physical condition could affect the respirator fit.(3) Personal protective equipment that is worn with self-contained breathing apparatus and might interfere with a proper fit must be worn during the fit test.(4) Only corrective eyewear designed for use with self-contained breathing apparatus may be worn. |
| Entry into buildings | 31.23 | <ul style="list-style-type: none">(1) When self-contained breathing apparatus must be used to enter a building, or similar enclosed location, the entry must be made by a team of at least 2 firefighters.(2) Effective voice communication must be maintained between firefighters inside and outside the enclosed location.(3) During the initial attack stages of an incident at least one firefighter must remain outside.(4) A suitably equipped rescue team of at least 2 firefighters must be established on the scene before sending in a second entry team and not more than 10 minutes after the initial attack.(5) The rescue team required by subsection (4) must not engage in any duties that limit their ability to make a prompt response to rescue an endangered firefighter while interior structural firefighting is being conducted. |

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| Air quality
and sampling | 31.24 | <p>(1) The employer must ensure that air used for breathing purposes meets the requirements of <i>CSA Standard CAN/CSA-Z180.1-00, Compressed Breathing Air and Systems</i>.</p> <p>(2) The air must be tested at least once annually in a manner acceptable to the Board.</p> |
| Spare
equipment | 31.25 | <p>(1) When self-contained breathing apparatus are used, the employer must ensure there are at least 4 apparatus available.</p> <p>(2) At least one spare compressed air cylinder, having a rated minimum duration of 30 minutes, must be maintained at full rated capacity and available for each self-contained breathing apparatus.</p> |
| Maintenance
and records | 31.26 | <p>(1) Self-contained breathing apparatus, including regulators, must be serviced and repaired by qualified persons.</p> <p>(2) Inspection of compressed air cylinders must be done in accordance with <i>CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators</i>.</p> <p>(3) Compressed air cylinders must be hydrostatically tested in accordance with <i>CSA Standard CAN/CSA-B339-96, Cylinders, Spheres, and Tubes for the Transportation of Dangerous Goods</i>.</p> <p>(4) Complete maintenance and repair records for each self-contained breathing apparatus and all air cylinders must be kept in accordance with the requirements of <i>CSA Standard CAN/CSA-Z94.4-02, Selection, Use, and Care of Respirators</i> (section 10.3.3.2.2-b to f, inclusive).</p> |

Note:

Amendments have been proposed only for the following sections relating to respirator protection in Part 31:

31.21
31.22
31.24
31.26

The other sections relating to respirator protection in Part 31 are provided here for reading convenience only.