

Development of a Code of Practice for Respiratory Protective Equipment

OHS information for employers

What is a Respiratory Protective Equipment Code of Practice?

The Alberta Occupational Health and Safety (OHS) Code requires that a Code of Practice (COP) describing the selection, maintenance and use of respiratory protective equipment (RPE) be developed whenever respirators are used at the work site.

This COP must be in writing and should, at a minimum, contain the following elements:

COMPANY HEALTH AND SAFETY POLICY

The COP should state whether the use of the RPE is mandatory or not.

RESPONSIBILITY FOR THE RESPIRATORY PROTECTIVE EQUIPMENT

The employer is responsible for selecting, providing, and maintaining RPE but may designate a competent worker to undertake this responsibility. The COP should identify the designated person with their position and telephone number.

THE SELECTION OF RESPIRATORY PROTECTIVE EQUIPMENT

When selecting the appropriate RPE, the employer must consider the following seven factors:

- nature of the contaminant;

- concentration or likely concentration of airborne contaminants or biohazardous materials;
- duration or likely duration of worker exposure;
- toxicity of the contaminants;
- concentration of oxygen in the work area;
- warning property of the contaminants; and
- need for emergency escape.

The COP should identify the type of airborne hazard generated by each workplace operation (i.e. dust, mist, fume, vapour, gas, oxygen deficiency, or a combination). The specific chemical name of the contaminant(s) or type(s) of bio-hazardous materials should be identified along with the conditions, such as oxygen deficiency, that have initiated respirator use at the work site.

The COP should state the type of respirator that is to be worn for each operation or task requiring one. If an air purifying respirator is used, the respirator and cartridges' make and model number should also be stated.

The selection of RPE must be based on the potential exposure of the worker and the protection factor assigned to the respirator.

Additional guidance on the selection of respirators is given in the following publication:

Respiratory Protective Equipment Code of Practice

[PPE001 Respiratory protective equipment: An employer's guide](#)

Respirators must be approved by the U.S. National Institute for Occupational Safety and Health (NIOSH) or by another standards-setting organization approved by a Director of Occupational Hygiene.

MAINTENANCE, CLEANING AND STORAGE

RPE must be clean and must function effectively. A cleaning and maintenance program must be established to help ensure this happens.

The COP should also include cartridge and/or filter change out schedules usually found in the manufacturer's specifications.

When RPE uses compressed breathing air, the employer must ensure that the quality of the breathing air complies with Table 1 of Canadian Standards Association (CSA) Standard Z180.1-00 (R2005), *Compressed Breathing Air and Systems* and does not contain concentrations of substances that exceed 10 per cent of the applicable Occupational Exposure Limits listed in Table 2 of Schedule 1 of the OHS Code (this does not apply to the substances listed in Table 1).

The employer must ensure that all workers affected by the code of practice are familiar with it before work begins.

CONDITIONS FOR USE OF RESPIRATORY PROTECTIVE EQUIPMENT

An employer must ensure that only workers who are free from any physiological or

psychological conditions that would prevent them from being able to wear a respirator are permitted to wear a respirator.

The first step is the completion of a health surveillance questionnaire.

Privacy of worker's health information must be protected and must be considered by the employer. If workers indicate that they have a health condition on the questionnaire, they should be assessed by a health care professional.

The COP needs to indicate that health surveillance must be conducted prior to a worker being fit tested for a respirator. But health surveillance may need to be repeated if the worker's health conditions change.

The COP must indicate that where the effectiveness of the respiratory protective equipment depends on a facial seal, the employer must ensure that the worker has been properly fit-tested and, when is clean shaven where the respirator seals against the skin.

The employer must ensure that workers affected by the COP have been trained in it before work begins.

The COP must be readily available at the work site and should be posted in a location where workers may refer to it.

A sample format for a RPE Code of Practice is provided in Appendix A.

Respiratory Protective Equipment Code of Practice

APPENDIX A – SAMPLE FORMAT

Respiratory Protective Equipment (RPE) Code of Practice

Company Name:

All Workers Affected Must Be Trained in the RPE Code of Practice

Person Responsible for Selecting and Providing RPE

Name: Telephone: Position:

Condition for Use of RPE

Health Surveillance: Workers must be medically fit to wear a respirator. (A sample respirator user screening form can be found in Appendix E of CSA Standard Z94.4-02)

Fit-Testing: RPE that depends on an effective seal for its safe use must be properly fit-tested by a competent (trained) person. (This must be done every two years or when physical conditions change)

NIOSH Approval: RPE required at the work site must be NIOSH approved (it will bear a NIOSH approval # e.g. TC- XXXX)

Clean-Shaven: Workers must be clean shaven where the respirator seals to the skin of the face

Task (e.g. Spray Painting)	Airborne Hazard (e.g. Type of solvent, dust)	Type of Respirator (e.g. half mask)	Respirator Make/Model #	Type of Cartridge (e.g. P100)	Cartridge Make/Model #	RPE Use Mandatory? Y/N

Maintenance/Cleaning/Storage of Respiratory Protective Equipment

Maintenance: Cartridges/filters must be replaced as per the manufacturer's instructions, in accordance with the calculated change out schedule or earlier if smell, taste or irritation from contamination is detected or if there is resistance to breathing. (see the manufacturer's instructions). The respirator must be inspected before and after each use to ensure it is in satisfactory condition and must be serviced in accordance with the manufacturer specifications.

Cleaning: RPE must be cleaned after each use. Wipes may be used, but should not be the only method of cleaning RPE (see the manufacturer's specifications)

Storage: RPE must be stored in a manner that will prevent its contamination (e.g. sealed bag (Ziploc™)) and ensure it is maintained in a clean and sanitary condition.

Respiratory Protective Equipment Code of Practice

Contact Us

OHS Contact Centre

Edmonton & Surrounding area

- 780-415-8690

Throughout Alberta

- 1-866-415-8690

Deaf or hearing impaired:

- 780-427-9999 (Edmonton)
- 1-800-232-7215 (Alberta)

Website

alberta.ca/OHS

Get Copies of OHS Act, Regulation and Code

Alberta Queen's Printer

qp.gov.ab.ca

Occupational Health and Safety

alberta.ca/ohs-act-regulation-code.aspx

© 2020 Government of Alberta

This material is for information only. The information provided in this material is solely for the user's information and convenience and, while thought to be accurate and functional, it is provided without warranty of any kind. The Crown, its agents, employees or contractors will not be liable to you for any damages, direct or indirect, arising out of your use of the information contained in this material. If in doubt with respect to any information contained within this material, or for confirmation of legal requirements, please refer to the current edition of the Occupational Health and Safety Act, Regulation and Code or other applicable legislation. Further, if there is any inconsistency or conflict between any of the information contained in this material and the applicable legislative requirement, the legislative requirement shall prevail. This material is current to March 2020. The law is constantly changing with new legislation, amendments to existing legislation, and decisions from the courts. It is important that you keep yourself informed of the current law. This material may be used, reproduced, stored or transmitted for non-commercial purposes. The source of this material must be acknowledged when publishing or issuing it to others. This material is not to be used, reproduced, stored or transmitted for commercial purposes without written permission from the Government of Alberta.