



Safe Environments.
Healthy Workers.

MLITSD Occupational Hygiene Campaigns 2024-2025

MLITSD Presentation with Public
Services Health & Safety Association
(PSHSA)



Housekeeping Items

- **Questions?** The chat feature on Zoom will NOT be monitored for questions.
- **Access issues?** Please connect with Email: clientexperience@pshsa.ca, Toll free: 1-877-250-7444

Questions:

<https://app.sli.do/event/ocUiR3JQYbLYYz7bYer4tT/live/questions?clusterId=eu1>

OR

www.Slido.com with the code # 1932204

- **For Workplace specific questions:** Connect with the MLITSD Contact Centre
webohs@ontario.ca
Toll-free: 1-877-202-0008
TTY: 1-855-653-9260
- **Health and Safety program and compliance support resources and prevention training services?** PSHSA www.pshsa.ca
- Registrants will have **access to a PDF** of this presentation in **PSHSA's Talent LMS** platform, and a recording will be posted on the PSHSA website by the end of this week.



Safe Environments.
Healthy Workers.

Introductions

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Education Sector & Specialized Services

Ministry of Labour, Immigration, Training and Skills Development

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Workplaces Division

April 29, 2024

Disclaimer

This presentation has been prepared to assist workplace parties in understanding their obligations under the Occupational Health and Safety Act (OHSA) and its Regulations. This presentation does not constitute legal advice. To determine your rights and responsibilities under OHSA, please contact your legal counsel or refer to the legislation.

FAIR, SAFE AND HEALTHY WORKPLACES DIVISION



Our Vision

We envision an Ontario that is the most attractive place to work in the world because every employee is treated fairly and comes home safely.

Our Mission

We set, communicate and enforce legislation to help make Ontario workplaces fair, safe and healthy. Through our professionalism, innovation and collaboration, we earn and maintain the public trust.

Introduction

Occupational illnesses may result from acute and long-term exposures to hazardous chemical agents in the workplace. Controlling these exposures will help lower the risk of workers developing an occupational illness.

There will be two occupational hygiene campaigns for 2024-2025:

- Worker exposures to chemical agents in the workplace
- WHMIS training based on the amended Hazardous Products Regulations

Worker exposures to chemical agents in the workplace

- Ensure compliance with R.R.O. 1990, Regulation 833: Control of Exposure to Biological or Chemical Agents in all workplaces where this regulation applies
- More specifically, MLITSD hygienists will ensure that workers are not exposed to hazardous substances exceeding the occupational exposure limits
- Assess worker exposures by identifying the hazards, observing work practices, evaluating effectiveness of controls
- Existing exposure data will be reviewed and/or a requirement for air sampling may be issued
- Contribute to the development of an exposure surveillance system

Phase 1: Education and Outreach

- April 1, 2024 to March 31, 2025
- Promote the campaign to stakeholders

Phase 2: Enforcement

- July 2, 2024 to March 31, 2025
- Proactive inspection of workplaces in any sector where workers may be exposed to chemical agents

WHMIS training based on the amended Hazardous Products Regulations

- Ensure compliance with R.R.O. 1990, Regulation 860, Workplace Hazardous Materials Information System (WHMIS) in all workplaces where this regulation applies
- More specifically, MLITSD hygienists will determine if retraining on WHMIS will be required depending on whether the hazardous products in the workplace have labels and safety data sheets that are compliant with the amended Hazardous Products Regulations (HPR)

Phase 1: Education and Outreach

- April 1, 2024, to March 31, 2025
- Promote the campaign to stakeholders

Phase 2: Enforcement

- July 2, 2024, to March 31, 2025
- Proactive inspection of workplaces in any sector where workers work with or may be exposed to hazardous products

Provincial WHMIS enforcement

Regulation 860, WHMIS – applies where hazardous products are used, stored and handled. Information is communicated to workers who work with or who may be exposed to hazardous products through:

- Safety data sheets (SDS)
- Labels
- Worker education

Federal WHMIS enforcement

- Hazardous Products Act (HPA) – outlines the duties of suppliers of hazardous products, including the provision of safety data sheets and product labels. Suppliers include manufacturers, importers and distributors.
- Hazardous Products Regulations (HPR) – outlines the criteria for classifying hazardous products and the required information elements in the SDS and labels
 - The HPR was amended on December 15, 2022

MLITSD Hygiene Consultants are also HPA Inspectors

Safety data sheets

- 16 sections including Hazards Identification (Section 2), Composition/Information on Ingredients (Section 3), Physical and Chemical Properties (Section 9), and Toxicological Information (Section 11)
- Hazard Classification:
 - Physical hazard class (Flammable Liquids, Chemicals Under Pressure)
 - Health hazard class (Carcinogenicity, Serious Eye Damage/Eye Irritation)
 - Category (1, 2, 3, 4), Subcategories (A, B, C)
- Example: Skin Corrosion – Category 1A

Amended Hazardous Products Regulations

SECTION 02: HAZARD IDENTIFICATION



Signal Word.....	DANGER.
Hazard Classification.....	Acute toxicity, inhalation - Category 2. Acute toxicity, dermal - Category 3. Serious Eye Damage - Category 1. Skin irritation - Category 2. Skin Sensitization - Category 1. Specific target organ toxicity - repeated exposure (STOT RE) - Category 2. Germ cell mutagenicity - Category 2.
Hazard Statement.....	H311 Toxic in contact with skin. H330 Fatal if inhaled. H341 Suspected of causing genetic defects. H318 Causes serious eye damage. H315 Causes skin irritation . H317 May cause

- A new physical hazard class, **Chemicals Under Pressure**, has been adopted
- The Flammable Aerosols hazard class name has been changed to **Aerosols**. A new category, **Aerosols – Category 3 (non-flammable aerosol products)**, has also been adopted
- There are new **subcategories for Flammable Gases for Category 1**
- The Pyrophoric Gases hazard class has been repealed and these gases are now under the subcategory of **Flammable Gases – Category 1A**
- For products classified under Combustible Dust, a second option for the hazard statement is introduced: **"May form explosible dust-air mixture"**

Amended Hazardous Products Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Common Name	None known.	
Synonyms	None known	
Components	CAS-No	Weight %
Petroleum distillates, hydrotreated light		30 - 60 %

- For the ingredients in **Section 3** of the SDS, allow for the use of narrower concentration ranges that fall within one of the prescribed concentration ranges
- **All hazardous ingredients in a mixture at concentrations above the relevant cut-off levels must be disclosed**, regardless of whether the ingredient contributes to the hazard classification of the mixture

Amended Hazardous Products Regulations

- 9 Physical and chemical properties
- (a) physical state;
 - (b) colour;
 - (c) odour;
 - (d) melting point and freezing point;
 - (e) boiling point or initial boiling point and boiling range;
 - (f) flammability;
 - (g) lower and upper explosion limit or lower and upper flammability limit;
 - (h) flash point;
 - (i) auto-ignition temperature;
 - (j) decomposition temperature;
 - (k) pH;
 - (l) kinematic viscosity;
 - (m) solubility;
 - (n) partition coefficient — n-octanol/water (logarithmic value);
 - (o) vapour pressure;
 - (p) density and relative density;
 - (q) relative vapour density; and
 - (r) particle characteristics

- Some changes were made in the required information elements in **Section 9** of the SDS for Physical and Chemical Properties, such as the addition of **Particle Characteristics**
- When a supplier is required to provide, obtain, or prepare a written document, it must **include the changes to the SDS and/or label that are required as a result of the significant new data and the date on which the significant new data became available**

Amended Hazardous Products Regulations

- There is a three-year transition period ending **December 14, 2025**, for suppliers to comply, during which time workplaces will begin to receive updated safety data sheets and labels for their hazardous products
- For more information:
<https://www.canada.ca/en/health-canada/services/environmental-workplace-health/occupational-health-safety/workplace-hazardous-materials-information-system/amendments-hazardous-products-regulations.html>



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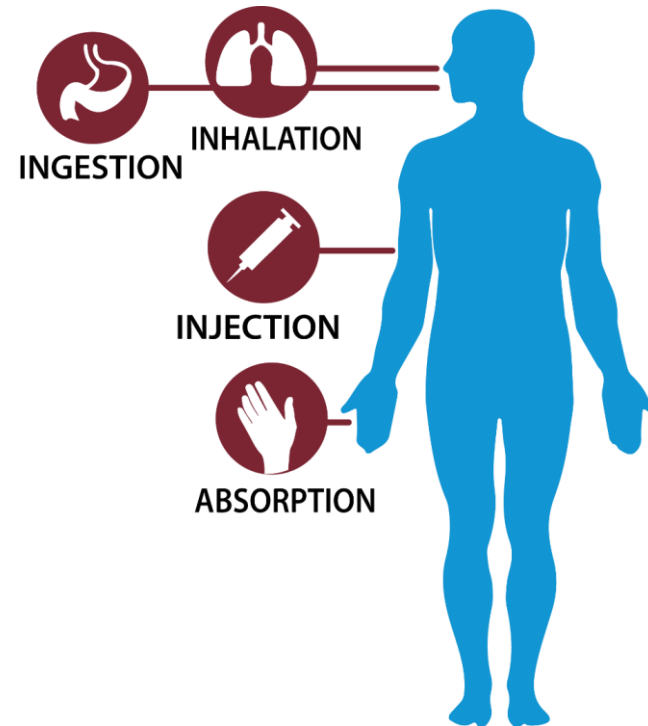
Supporting Workplaces



Chemicals Can Cause Injury or Illness

Injury: Bodily damage that is acute/ immediate onset

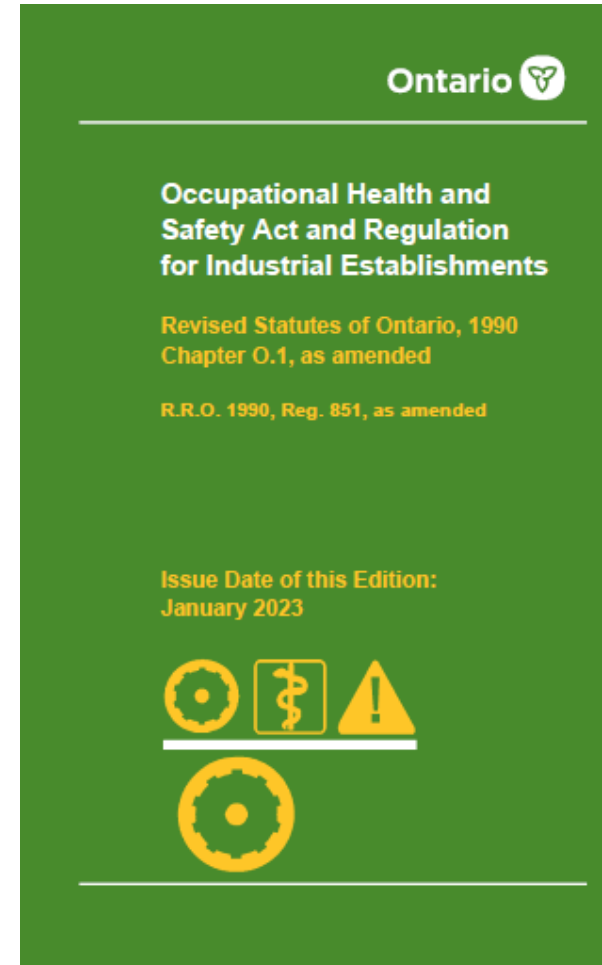
Illness: Bodily damage that is chronic/ long-term onset





Roles and Responsibilities

- Occupational Health and Safety Act
- O. Reg 833 Control of Exposure to Biological or Chemical Agents
- O. Reg. 860 WHMIS





Prevention

Primary Prevention

Reducing exposures among healthy workers

Secondary Intervention

Identifying early stages of disease among workers with exposures

i.e., screening programs, surveillance

Tertiary Intervention

Ensuring appropriate treatment and compensation

i.e., access to care, quality of life

Hierarchy of Controls

Most effective

ELIMINATION

SUBSTITUTION

ENGINEERING
CONTROLS

ADMINISTRATIVE
CONTROLS

PPE

Least effective



Four Steps to Health and Safety

R	A	C	E
Recognize	Assess	Control	Evaluate
<ul style="list-style-type: none">• Workplace Inspections• Hazard Identification Tools• Job Hazard Analysis• Observations• Problems/concerns of anyone• Use your senses• Review of Documents	<ul style="list-style-type: none">• Compare to a standard• Risk assessment<ul style="list-style-type: none">- Identify how the individual might get harmed- Identify the probability that the hazard is going to cause harm- Identify how severe the hazard could be- Identify hazard priority	<ul style="list-style-type: none">• Locations:<ul style="list-style-type: none">- At the Source- Along the Path- At the Worker• Controls:<ul style="list-style-type: none">- Elimination- Substitution- Engineering- Administrative- Personal Protective Equipment (PPE)	<ul style="list-style-type: none">• The control is:<ul style="list-style-type: none">- Working as expected- Has been communicated to affected workers- Reduces the risk- Reduces complaints, injuries, illnesses- Does not create new hazards



Tools to Recognize Chemical Hazards

- Inspections
- Investigations
- Job hazard analyses
- Observations
- Hygiene monitoring
- Interviews
- Risk assessment





SDS and Other Resources

Current occupational exposure limits for Ontario workplaces under Regulation 833

Read this page to learn about current exposure limits to specific biological or chemical substances for workers in Ontario.

SAFETY DATA SHEET

Version 6.17
Revision Date 26.03.2024
Print Date 21.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Methanol
Product Number : 34860
Brand : SIGALD
Index-No. : 603-001-00-X
CAS-No. : 67-56-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : MilliporeSigma Canada Ltd.
2149 WINSTON PARK DRIVE
OAKVILLE ON L6H 6J8
CANADA
Telephone : +1 905 829-9500
Fax : +1 905 829-9292

1.4 Emergency telephone

Emergency Phone # : +1-703-527-3887 CHEMTREC
(International)
24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with Hazardous Products Regulations (HPR)
(SOR/2015-17)

Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Specific target organ toxicity - single exposure (Category 1), Eyes, Central nervous system, H370

For the full text of the H-Statements mentioned in this Section, see Section 16.

SIGALD - 34860

Page 1 of 14

	Exploding bomb (for explosion or reactivity hazards)		Flame (for fire hazards)		Flame over circle (for oxidizing hazards)
	Gas cylinder (for gases under pressure)		Corrosion (for corrosive damage to metals, as well as skin, eyes)		Skull and Crossbones (can cause death or toxicity with short exposure to small amounts)
	Health hazard (may cause or suspected of causing serious health effects)		Exclamation mark (may cause less serious health effects or damage the ozone layer*)		Environment* (may cause damage to the aquatic environment)
	Biohazardous Infectious Materials (for organisms or toxins that can cause diseases in people or animals)				

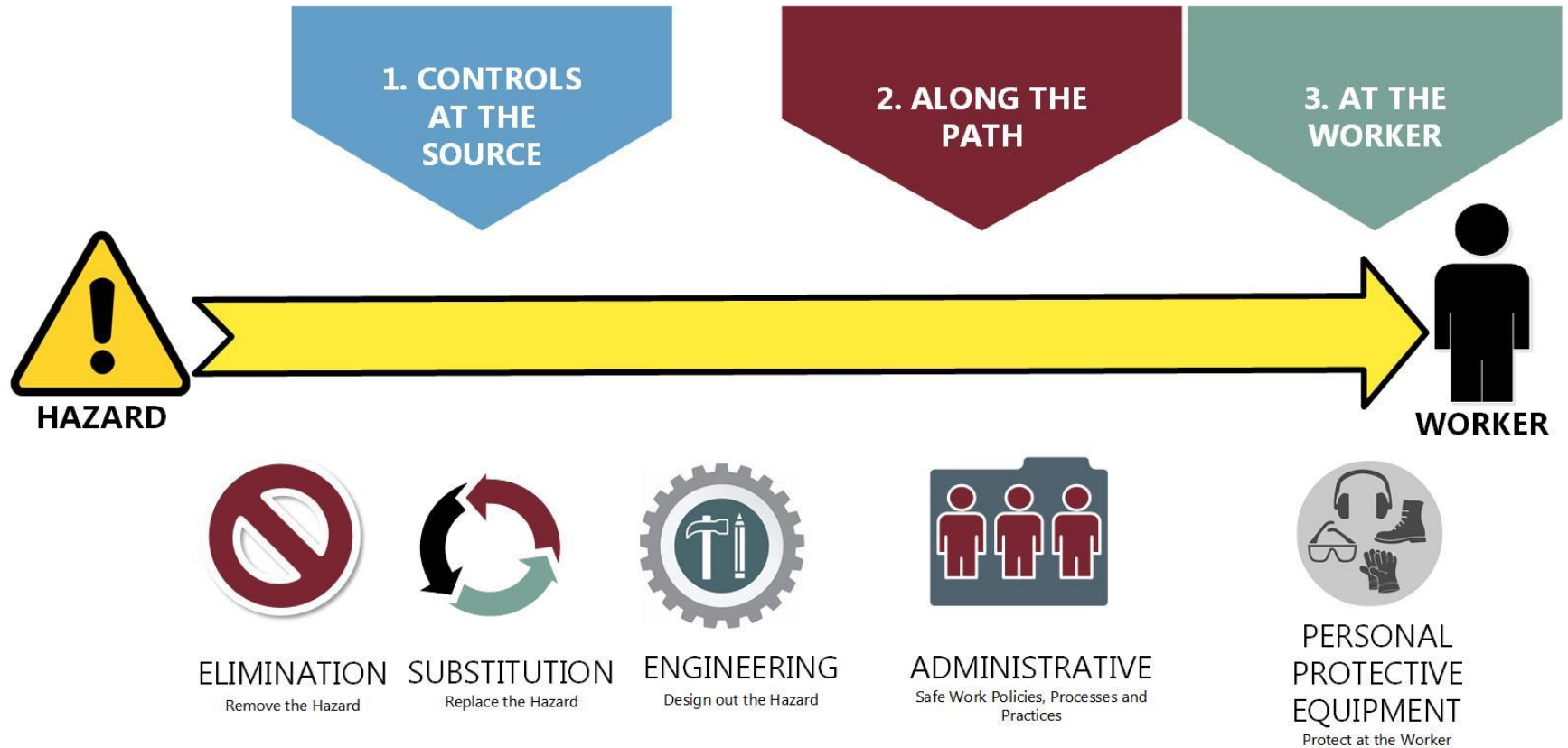


Hygiene Monitoring





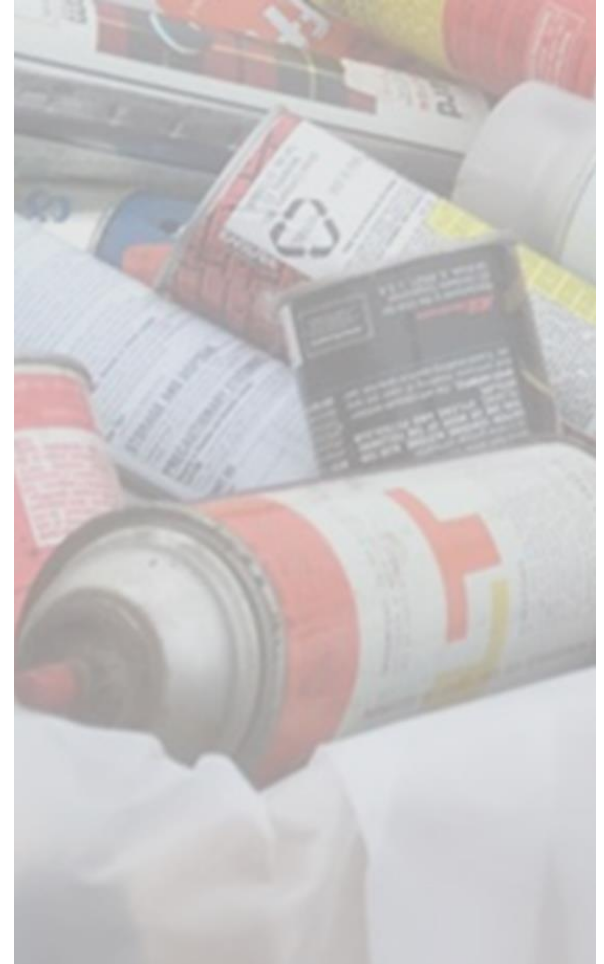
Control Measures





Elimination – Removing the Hazard

- Remove expired or unnecessary chemicals from the workplace
- Eliminate the process or need for the chemical in the process

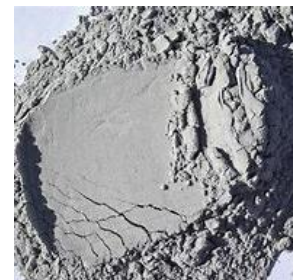




Substitution – Replace the Hazard

Least Hazardous

Most Hazardous



Ingot

Pellet

Flakes

Powder

Fume

Decreasing particle size



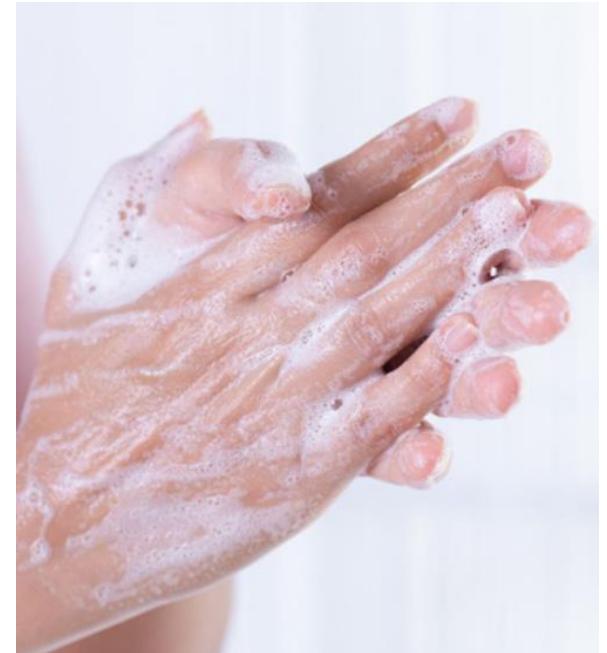
Engineering – Designing out the Hazard





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Administrative – Changing the Way People Work





Personal Protective Equipment – Protecting the Worker



- Examples – respirator, chemical resistant boots, goggles, protective clothing and gloves



Respiratory Protection Program

1. Roles and Responsibilities
2. Hazard Assessment
3. Respirator Selection
4. Health Surveillance
5. Training
6. Fit Testing
7. Use of Respirator
8. Care of Respirator
9. Program Evaluation
10. Records



CAN/CSA-Z94.4-18
National Standard of Canada
(reaffirmed 2023)



Selection, use, and care of respirators



scc  ccn



Action Plan

Workplace Specific Hazard				Date Prepared	
Relevant Legislation				Prepared By	
What is the Specific Hazard?	What are the Steps that Need to be Taken?	Who is Responsible for Doing this Work?	What Resources (time, money, and people) are Needed?	By When?	How will we know it is done?



Preparation Tips



Reviewing the Provincial Health and Safety Compliance Initiative Schedule, information and OHS requirements



Collaboration with your organization's management, supervisory teams, and Joint Health and Safety Committee or Health and Safety Representatives.



Evaluate risks and create an **action plan** to address compliance, hazard identification and control and program gaps identified



Update **policies, procedures and safe operating procedures** as required.



Communicate and provide training and review on policies, procedures, roles, and responsibilities to workplace parties.



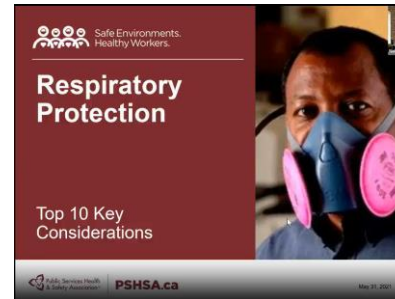
Access available resources and help!



PSHSA Resources



- Updated with new legislative requirements



- Top 10 considerations



- Respirator fit testing and train the fit tester



- General awareness training

[Public Services Health and Safety Association | Home \(pshsa.ca\)](https://www.pshsa.ca)



Additional Resources



[OHCOW](#)

[Canadian Centre for Occupational Health and Safety \(ccohs.ca\)](#)

Current occupational exposure limits for Ontario workplaces under Regulation 833

Read this page to learn about current exposure limits to specific biological or chemical substances for workers in Ontario.

[Current occupational exposure limits for Ontario workplaces under Regulation 833 | ontario.ca](#)



Additional Resources



Occupational
Cancer
Research
Centre

- [Occupational Cancer Research Centre](#)



- [CAREX Canada](#)

Workplace Hazardous Materials Information System - A guide to the legislation

This guide provides an overview of the Workplace Hazardous Materials Information System (WHMIS), a Canada-wide system designed to give employers and workers information about hazardous products used in the workplace.

- [Workplace Hazardous Materials Information System - A guide to the legislation | ontario.ca](#)



Safe Environments.
Healthy Workers.

We Are Here To HELP!

RESOURCES



Free downloads,
comprehensive tools,
manuals, posters,
training kits, webinars
& seminars

TRAINING



A variety of training on
both general and
sector-specific health &
safety topics

Custom Development
Available

RESEARCH



Enabling the creation
of innovative and
impactful programs,
products, & solutions

CONSULTING



Our consulting model
allows us to accurately
assess your
organization's needs
and guide you along a
safety continuum.



Webinar ?s?

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