



April 18, 2018

**HAZARDOUS MATERIALS/PRODUCTS/SUBSTANCES
WHMIS (Workplace Hazardous Material Information System)**

PURPOSE/APPLICATION

To protect workers from injuries associated with the use, care, and handling of hazardous materials, products, and substances. Canadian Plains Energy Services (CPE) will provide training and information to all employees to reduce the health and safety risks associated with the use, care, and handling of hazardous materials, products, and substances in the workplace.

PPE

- Canadian Plains Energy Services (CPE) minimum requirements
- As per MSDS

TRAINING

- WHMIS

HAZARDS & CONCERNS

- Personal injury
- Occupational illness
- Property damage
- Fire/burn

PRECAUTIONS

- Keep work area clean and orderly.
- Know the location of decontamination stations (eyewash stations, showers) and how to use them prior to commencing work.
- Read the Code of Practice associated with the use, care, and handling of hazardous materials, products, and substances.
- Inspect all personal protective equipment to ensure that it can perform the functions for which it was designed.
- Label all hazardous materials, products, and substances according to guidelines specified through your WHMIS training.
- Wear the proper personal protective equipment required for each job that you perform.
- Read the MSDS and labels to know the procedures for safe use, storage, and handling of all hazardous materials, products, and substances you work with.
- Store incompatible hazardous materials, products, and substances in separate areas.
- Know all the hazards (fire/explosion, health, chemical reactivity, corrosivity, pressure) of the hazardous materials, products, and substances you work with.
- Limit the volume of hazardous materials, products, and substances to the minimum needed for short operational periods.
- Know all emergency procedures associated with all hazardous materials, products, and substances you work with.
- Ensure that all hazardous materials, products, and substances are contained in the event that a storage container should break or spill its contents.

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REFERENCES / ADDITIONAL INFORMATION

- Material Safety Data Sheets (MSDS)
- WHMIS Labels
- COP 01 H2S Environment (Working In)
- MSDS Binders Software <http://strikeenergy.msdsbinders.com>

REGULATIONS

Alberta OHS Code – Part 4 – Chemical Hazards, Biological Hazards and Harmful Substances

Potential worker exposure 21

- 1. If a worker may be exposed to a harmful substance at a work site, an employer must identify the health hazards associated with the exposure and assess the worker's exposure.*
- 2. The employer must ensure that a worker who may be exposed to a harmful substance at a work site*
 - a. is informed of the health hazards associated with exposure to that substance,*
 - b. is informed of measurements made of airborne concentrations of harmful substances at the work site, and*
 - c. is trained in procedures developed by the employer to minimize the worker's exposure to harmful substances and understands the procedures.*
- 3. A worker who is provided with training under subsection (2) must use the procedures appropriately and apply the training.*

Storage of harmful substances 27

An employer must ensure that a harmful substance used or stored at a work site

- a. is clearly identified, or its container is clearly identified, and*
- b. is used and stored in such a way that the use or storage is not a hazard to workers.*

Alberta OHS Code – Part 29 – Workplace Hazardous Materials Information System (WHMIS)

Hazardous waste 396

If a controlled product is a hazardous waste generated at the work site, an employer must ensure that it is stored and handled safely using a combination of

- a. any means of identification, and*
- b. instruction of workers on the safe handling of the hazardous waste.*

Training 397

- 1. An employer must ensure that a worker who works with or near a controlled product or performs work involving the manufacture of a controlled product is trained in*
 - a. the content required to be on a supplier label and a work site label and the purpose and significance of the information on the label,*

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- b. the content required to be on a material safety data sheet and the purpose and significance of the information on the material safety data sheet,*
 - c. procedures for safely storing, using and handling the controlled product,*
 - d. if applicable, the procedures for safely manufacturing the controlled product,*
 - e. if applicable, the methods of identification referred to in section 402,*
 - f. the procedures to be followed if there are fugitive emissions, and*
 - g. the procedures to be followed in case of an emergency involving the controlled product.*
- 2. An employer must develop and implement the procedures referred to in subsection (1) in consultation with the joint work site health and safety committee if there is one.**

Saskatchewan OHS Regulation – Part XXI – Chemical and Biological Substances

General duties of employers 302

- 1. An employer shall, at a place of employment:**
 - a. monitor the use or presence of, or a worker's exposure to, any chemical substance or any biological substance that may be hazardous or harmful to the health or safety of a worker;*
 - b. where reasonably practicable, substitute a less hazardous or harmful chemical substance or biological substance for a hazardous or harmful chemical substance or biological substance;*
 - c. subject to subsection 307(1), to the extent that is reasonably practicable, reduce any contamination of the place of employment by a chemical substance or biological substance; and*
 - d. develop and implement work procedures and processes that are as safe as is reasonably practicable for the handling, use, storage, production and disposal of chemical substances and biological substances.*
- 2. An employer shall take all practicable steps to prevent exposure of a worker, to an extent that is likely to be harmful to the worker, to:**
 - a. a chemical substance or biological substance that may be hazardous; or*
 - b. a chemical substance or biological substance in combination or association with any other substance present that may be hazardous.*
- 3. An employer shall:**
 - a. inform the workers of the nature and degree of the effects to their health or safety of any chemical substance or biological substance to which the workers are exposed in the course of their work; and*
 - b. provide the workers with adequate training with respect to:*
 - I. work procedures and processes developed pursuant to clause (1)(d); and*
 - II. the proper use of any personal protective equipment required by these regulations.*
- 4. An employer shall make available to the committee, the representative or, where there is no committee or representative, the workers:**
 - a. the results of any measurements of worker exposure to, and contamination of a place of employment by, a chemical substance or biological substance; and*

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- b. any steps taken to reduce the contamination of a place of employment by, and eliminate or reduce exposure of the workers to, a chemical substance or biological substance.*

**Saskatchewan OHS Regulation – Part XXII – Controlled Products – Workplace Hazardous
Materials Information System**

Restriction on use of controlled products 317

- 1. Subject to subsection (2), an employer shall ensure that a controlled product is not used, stored or handled in a place of employment unless all the applicable requirements of this Part with respect to labels, identifiers, material safety data sheets and worker training are complied with.*
- 2. An employer may store a controlled product in a place of employment while actively seeking information required pursuant to this Part.*

Worker training 318

- 1. An employer shall ensure that a worker who works with, or in proximity to, a controlled product is informed about:*
 - a. all hazard information received by the employer from a supplier concerning that controlled product; and*
 - b. any further hazard information of which the employer is aware, or ought to be aware, concerning the use, storage and handling of that controlled product.*
- 3. An employer shall ensure that a worker who works with, or in proximity to, a controlled product is trained in:*
 - a. the content required on a supplier label and workplace label for the controlled product and the purpose and significance of the information contained on those labels;*
 - b. the content required on a material safety data sheet for the controlled product and the purpose and significance of the information contained on the material safety data sheet;*
 - c. all necessary procedures for the safe use, storage, handling and disposal of the controlled product;*
 - d. all necessary procedures to be followed where fugitive emissions are present; and*
 - e. all necessary procedures to be followed in case of an emergency involving a controlled product.*
- 5. An employer shall ensure that:*
 - a. the training required by subsection (3) results in a worker being able to apply the information as needed to protect the health and safety of that worker or any other worker; and*
 - b. the necessary procedures mentioned in clauses (3)(c) to (e) are implemented.*
- 6. An employer, in consultation with the committee, the representative or, where there is no committee or representative, the workers, shall review the training provided to workers concerning controlled products at least annually, or more frequently if there is a change in work conditions or available hazard information.*

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British Columbia OHS Regulation – Part 5 - Chemical Agents and Biological Agents

5.2 General information requirement

If a worker is or may be exposed to a chemical agent, or biological agent designated as a hazardous substance in section 5.1.1, which could cause an adverse health effect, the employer must ensure that

- a. the identity of the chemical agent or biological agent, its possible effects on worker health and safety and any precautions required to protect the health and safety of the worker are clearly indicated by labels, MSDSs, or other similar means,*
- b. the information required by paragraph (a) is clearly communicated to the worker,*
- c. written procedures are prepared and implemented to eliminate or minimize a risk of exposure to a chemical agent or biological agent by any route that could cause an adverse health effect, and to address emergency and cleanup procedures in the event of a spill or release of a chemical agent or biological agent, and*
- d. the supervisor and the worker are trained in and follow the measures required in this Part and Part 6 of this Regulation for the safe handling, use, storage and disposal of the chemical agent or biological agent, including emergency and spill cleanup procedures.*

5.6 Worker education

- 1.** *An employer must ensure that general WHMIS education, as it pertains to the workplace, is provided to workers on the*
 - a. elements of the WHMIS program,*
 - b. major hazards of the controlled products in use in the workplace,*
 - c. rights and responsibilities of employers and workers, and*
 - d. content required on labels and MSDSs, and the significance of this information.*
- 2.** *The employer must ensure that a worker who works with or in proximity to a controlled product received from a supplier has access to all hazard information received from the supplier concerning that controlled product as well as any further hazard information of which the employer is aware or ought to be aware concerning the use, storage and handling of that product.*

5.7 Worker training

- 1.** *An employer must ensure that a worker who works with or in proximity to a controlled product is instructed in*
 - a. procedures for the safe use, storage, handling and disposal of the controlled product,*
 - b. the safe use, storage, handling and disposal of a controlled product contained or transferred in*
 - I. a pipe or a piping system including valves,*
 - II. a process or reaction vessel, or*
 - III. a tank car, tank truck, ore car, conveyor belt or similar conveyance,*
 - c. procedures to be followed if the controlled product escapes from equipment, or from another product, and*
 - d. procedures to be followed in case of an emergency involving a controlled product.*



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- 2. *Instruction required by subsection (1) must be specific to the workplace and cover the safe work procedures and emergency response procedures to be used in the workplace.*

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