



Health & Safety Standard

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1 Purpose

The Confined Space Entry standard sets the requirements for managing **risk** associated with performing work in a **confined space**.

This standard is intended for individuals accountable or responsible for confined space entry work.

2 Application

This standard applies to confined space entries performed at Cenovus entities, except for entries into an **inert gas confined space**, which shall be managed by specialized contractors with specific skills, procedures, equipment, and rescue plans not addressed in this standard.

3 Requirements

Entities shall identify confined space work and where practicable confined space entry work should be avoided, applying lower risk alternatives.

Workers in a confined space shall be protected against **hazardous energy**, and from asphyxiation, drowning, engulfment, and/or entrapment.

Prior to confined space entry, the confined space shall be isolated according to the **Energy Isolation Standard** and be authorized by a safe work permit.

Entities shall create site-specific procedures and processes that meet or exceed this standard.

Where the requirements of this standard conflict with the requirements of local, federal, or other regulatory bodies the most stringent requirement shall apply.

3.1 Access and egress

The entity shall control access to a confined space.

All entry points shall be visually identified to prevent unauthorized access.

The confined space shall have a safe and clear means of access and egress for **workers** and rescue personnel.

Workers in a confined space shall be monitored by a **Safety Watch**. The safety watch shall:

- be a person posted outside the confined space or in conjunction with a confined space remote monitoring system.
- log workers entering and leaving the confined space
- prevent unauthorized personnel from entering the confined space
- maintain communication with workers inside the confined space
- monitor the safety and well being of workers in the confined space
- perform atmospheric monitoring as practicable from outside of the confined space

- sound an alarm in an **emergency**
- not enter the confined space nor attempt a rescue

3.2 Confined space atmosphere

Atmospheric testing shall be conducted prior to entry, and continuously when workers are within the confined space.

While workers are present in a confined space for any purpose other than to perform a rescue, the atmosphere in the confined space:

- should have an oxygen content of 20.9% and shall not be greater than 23.5%
- should not have any flammable gases and shall not have a flammable gas concentration greater than 20% of lower explosive limit

The confined space shall be continuously ventilated with fresh air while a worker is inside the space.

Atmospheric testing shall be performed by a competent person, or someone directly supervised by a competent person. Atmospheric testing equipment shall be:

- function tested prior to use
- used according to its design

3.3 Equipment

All equipment used in confined space entry shall be inspected and confirmed to be in good working order prior to entry into the confined space.

Personal protective equipment (PPE) shall be worn per the applicable Safety Data Sheets (SDS) and in compliance with the **Industrial Hygiene Standard**.

All electrical equipment used with a confined space shall be equipped with a **ground fault circuit interrupter (GFCI)**.

Compressed gas cylinders are not permitted inside a confined space except for breathing air, firefighting, and medical resuscitation.

3.4 Confined space rescue

A worker shall not enter or remain in a confined space unless an effective rescue can be carried out.

Members of confined space rescue teams shall:

- be trained and competent
- ensure a documented rescue plan has been reviewed and is present at the site of the confined space entry
- ensure rescue equipment has been inspected and is readily available to perform an effective rescue
- participate in at least one confined space rescue drill annually

Confined space rescue shall be limited to the following atmospheric conditions:

- oxygen concentration less than 23.5%

- flammable gases less than 40% of their lower explosive limit

3.5 Training

Workers shall be trained and competent to perform their role in the authorization and execution of work in a confined space.