



CONFINED SPACE PLAN

Confined Space Name/Location/Identification #:	Written by:	Date:
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This plan is specific to the confined space named and identified above and is written in accordance with Ontario Regulation 632/05, Confined Spaces made under the Occupational Health and Safety Act of Ontario and the University of Guelph Confined Spaces Management Program.

1) Hazard Identification and Control

The list below indicates the hazards and the control measures that have been identified for the confined space name above. The list includes actual and potential existing hazards that have been identified based on the hazard assessment. It also includes the hazards that may develop during the work activity inside the confined space. The hazards assessed include atmospheric and physical hazards as well as general safety and health hazards present in the space.

Identified Hazards	Hazard Control Measures

2) Duties of Entrants in the Confined Space

University of Guelph Entrants/Other Related Personnel:

- 1. Name _____
Duties _____

- 2. Name _____
Duties _____

- 3. Name _____
Duties _____

Maintenance Contractor(s) Entrants/Other Related Personnel:

- 1. Name _____ Employer _____
Duties _____

- 2. Name _____ Employer _____
Duties _____

- 3. Name _____ Employer _____
Duties _____

- 4. Name _____ Employer _____
Duties _____

3) Multi-Employer Involvement

- No Yes If "No" proceed to #4; if "Yes" continue below

Where the workers of more than one employer are to perform work in the same confined space or related work with respect to the same confined space, and before any worker enters the confined space or begins related work with respect to the confined space, the University of Guelph as the lead employer is required by Ontario Regulation 632/05, Confined Spaces made under the Occupational Health and Safety Act of Ontario, to prepare a **co-ordination document** to ensure that the duties imposed on employers by the regulation are performed in a way that protects the health and safety of **all workers** who perform work in the confined space or related work with respect to the confined space.

Co-ordination Document attached: No Yes

Personal Protective Equipment (PPE)

Personal protective equipment required (✓):

Airline Respirator (Supplied Air) with 5-minute Egress Bottle Hearing Protection
 Self-Contained Breathing Apparatus Chemical Splash Goggles Safety Glasses
 Specify Other Respiratory Protection _____ Fall Protection
 Boots Gloves (Type) _____ Retrieval Ropes for Horizontal Entry Rain Gear

- All entrants and other related personnel shall be equipped with appropriate PPE Yes
- All entrants and other related personnel using respiratory protective equipment shall be appropriately trained Yes NA

7) Isolation of Energy and Control of Materials Movement (✓ where applicable below)

Before working in the confined space, **all** energy sources, which are potentially hazardous to workers in the space, shall be identified and de-energized, secured, relieved, disconnected, restrained or otherwise controlled. Also, entrants shall be protected against any collapse or shift of material.

- All connecting supply lines, which are potentially hazardous to workers in the space, have been depressurized, vented and disconnected with a blank inserted into the line. Blinds or blanks have been sized for proper pressure and diameter
 Yes NA Other adequate means: _____
- All electrical components, which are potentially hazardous to workers in the space, have been disconnected/de-energized, locked out and tagged (group lockout procedures shall be used for all authorized entrants)
 Yes NA Other adequate means: _____
- All hydraulic and pneumatic systems and moving parts of equipment, which are potentially hazardous to workers in the space, have been disconnected/de-activated/de-energized, mechanical components have been blocked or supported in place and have been locked-out and tagged
 Yes NA Other adequate means: _____
- Before entry, all heated or steamed spaces have cooled to an acceptable temperature
 Yes NA Other adequate means: _____
- Entrants are adequately protected against drowning, engulfment, entrapment, suffocation and other hazards from free-flowing material
 NA Adequate protection: _____

8) Ventilation and Purging (check ✓ where applicable)

“Purging” involves **removing contaminants** inside the confined space by displacement with air to achieve acceptable atmospheric levels. After the contaminants have been removed (purged), the confined space may be ventilated. **“Ventilation”** means the continuous **provision of fresh air** into the confined space by mechanical means to maintain acceptable atmospheric levels. It must be continued while work is being carried out within the space, to maintain an acceptable oxygen concentration, to provide protection in case of accidental release of chemicals, to remove contaminants generated by the work performed or to cool the enclosure.

- If atmospheric hazards exist or are likely to exist in the confined space, the confined space shall be purged and/or ventilated , before any worker enters it, to ensure that acceptable atmospheric levels are maintained in the confined space while any worker is inside.
- If mechanical ventilation is required to maintain acceptable atmospheric levels, an adequate warning system (a flow or pressure switch in the air stream) and exit procedure shall also be provided to ensure that workers have adequate warning of ventilation failure and are able to exit the confined space safely Yes

9) Procedures for Working in the Presence of Explosive or Flammable Substances (✓)

The accumulation of flammable, combustible or explosive agents in confined spaces can present a significant risk to workers; as a result, very stringent criteria are applied to work performed in such atmospheres.

- No worker shall enter or remain in a confined space that contains or is likely to contain an airborne combustible dust or mist whose concentration may create a hazard of explosion.

The confined space contains or is likely to contain an explosive or flammable gas or vapour

No Yes If "No" proceed to #10; if "Yes" continue below

- In the case of a worker performing **only inspection work** that does not produce a source of ignition: the atmospheric concentration of the explosive or flammable gas or vapour is **less than 25% of its lower explosive limit**

Yes No: If "No" specify control measure(s): Purging Ventilation Inerting Other adequate means: _____

- In the case of a worker performing **only cold work**: the atmospheric concentration of the explosive or flammable gas or vapour is **less than 10% of its lower explosive limit**

Yes No: If "No" specify control measure(s): Purging Ventilation Inerting Other adequate means: _____

- In the case of a worker performing **hot work**:

- the atmospheric concentration of the explosive or flammable gas or vapour is **at 0% of its lower explosive limit** Yes

- the atmospheric concentration of oxygen is not likely to be **greater than 23%** Yes

- the atmosphere in the confined space will be monitored continuously Yes

- the entry permit includes adequate provisions for hot work and corresponding control measures Yes

- an adequate alarm system and exit procedure are provided to ensure that workers have adequate warning and are able to exit the confined space safely if either or both of the following occur: Yes

A. the atmospheric concentration of the explosive or flammable gas or vapour exceeds 5% of its lower explosive limit

B. the atmospheric concentration of oxygen exceeds 23%

If "**No**" to **any** of the above under "**hot work**", specify control measure(s): Purging Ventilation Inerting Other adequate means: _____

10) Atmospheric Testing (check ✓ where applicable)

Atmospheric testing is required for entry and work in confined spaces.

- Testing shall be performed by an adequately trained person using continuous monitoring, before and while a worker is in the confined space Yes.

- Test results shall be recorded at adequate intervals Yes

Recording Interval(s): _____

- The atmospheric hazards of concern are:

Oxygen LEL Carbon Monoxide Hydrogen Sulphide

11) On-Site Rescue -- Procedures, Equipment and Method of Communication (✓)

Well-designed confined space entry and work procedures should eliminate or control hazardous conditions. Rescue plans must be prepared to respond to unanticipated situations.

The following shall be in place before any worker enters the confined space:

- Adequate written on-site rescue procedures have been developed (see attached plan/procedures) and are ready for immediate implementation Yes
- All emergency procedures, including procedures relating to emergencies outside the confined space shall be reviewed with all entrants and other related personnel Yes
- An adequate number of appropriately trained persons (see attached plan) shall be available for immediate implementation of the on-site rescue procedures that apply to the confined space. This training includes: on-site rescue procedures that apply to the confined space • first-aid and cardio-pulmonary resuscitation • use of the pertinent rescue equipment Yes
- The rescue equipment identified in the attached plan/procedures shall be readily available to effect a rescue in the confined space Yes
- The rescue equipment identified in the attached plan/procedures is appropriate for entry into the confined space Yes

12) Additional Considerations
