

Effective Date:	Work Request # or Project ID #:
Start Date:	End Time (Permit Expiry Time):

<b>1. Work Area Detail</b>
Building and Location (include ID number as noted on the inventory):
Work Area Description (describe work to be completed):

<b>2. Hazard Identification</b>
<b>Atmospheric Conditions (Confined Space is HIGH RISK if any of the following atmospheric conditions exist)</b> <input type="checkbox"/> Oxygen Deficiency (below 19.5%) <input type="checkbox"/> Oxygen Enriched (above 23%) <input type="checkbox"/> Concentration exceeding 8-hr exposure limit (OEL) <input type="checkbox"/> Concentration of hazard above specified LEL <input type="checkbox"/> Dust / Mist / Fumes <input type="checkbox"/> Other (specify):  NOTE <sup>1</sup> : For all Hazardous atmospheres, a Record of Continuous Monitoring (pg. 6) must be completed. NOTE <sup>2</sup> : If the atmosphere must be purged and/or inerted prior to entry, a qualified contractor MUST be used.
<b>Physical Conditions and Other Hazards</b> <input type="checkbox"/> Moving / Rotating Equipment <input type="checkbox"/> Slips / Trips / Falls <input type="checkbox"/> Falls from Height / to Lower Level / Floor Openings <input type="checkbox"/> Hot Work <input type="checkbox"/> Extreme Heat / Cold <input type="checkbox"/> Chemicals (MSDS reviewed) <input type="checkbox"/> Traffic <input type="checkbox"/> Noise <input type="checkbox"/> Worker Fitness / Medical Condition <input type="checkbox"/> Static Electricity <input type="checkbox"/> Radiation <input type="checkbox"/> Overhead Loads / Falling Objects <input type="checkbox"/> Stored Energy <input type="checkbox"/> Entrapment / Engulfment in Product or Liquid <input type="checkbox"/> Piping or Physical Configuration of Space <input type="checkbox"/> Inadequate Lighting <input type="checkbox"/> Claustrophobia (no entry if in doubt) <input type="checkbox"/> Other (specify):
<b>Additional Description of Hazards</b> Provide further details of the identified hazard including specific dimensions, location, levels, etc. (attach additional information if required)

**3. Hazard Control**
**Control Systems:**

- ☐ Ventilation – Intrinsically Safe  
Supply Fan Rating \_\_\_\_\_ cfm (min. 50 cfm/ person)
- ☐ Isolation – Control of Hazardous Energy (i.e. LOTO)
- ☐ Purging (by qualified contractor)
- ☐ Inerting (by qualified outside contractor)
- ☐ Travel Restraint / Fall Arrest
- ☐ Lighting
- ☐ Guard Rails (site specific training required)

- ☐ Barricades / Pylons / Warning Tape
- ☐ Tripod / Man-Winch / SRL
- ☐ Davit Arm / Man-Winch / SRL
- ☐ Gas Monitoring
- ☐ Continuous / Periodic at intervals
- ☐ Posted signage
- ☐ Communication system
- ☐ Other (specify): \_\_\_\_\_

**Personal Protective Equipment:**

- ☐ SCBA / SABA
- ☐ Respirator – Cartridge  
Type: \_\_\_\_\_
- ☐ Full Body Harness Class: \_\_\_\_\_
- ☐ Lifeline
- ☐ Flame Resistant Clothing
- ☐ Hard Hat with chin strap / Rescue Helmet
- ☐ Gloves – Type: \_\_\_\_\_

- ☐ Boots – Type: \_\_\_\_\_
- ☐ Radios / Cell Phone (ensure reception at site)
- ☐ Flashlights - intrinsically safe? Yes / No
- ☐ Face Shield
- ☐ Safety Glasses
- ☐ Other (specify): \_\_\_\_\_

**4. Communication**
**Audible**

- ☐ Verbal\*
- ☐ Radio
- ☐ Cell Phone

- ☐ Tapping / Knocking
- ☐ Whistle

**Visual**

- ☐ Hand Signals
- ☐ Flashlight
- ☐ Flags

**Tactical**

- ☐ Tug on Lifeline
- ☐ Tap on Body

☐ Other (specify): \_\_\_\_\_

*\*Note: Avoid use of words such as slow, no, go, whoa.*

**Additional Description of Communication Procedure / Commands**

Provide further details of the planned communication procedures (i.e. SUDOT System with check intervals) (attach additional information if required)

**5. Rescue Plan**

Identify the Procedure for prompt and safe removal of injured workers:

- ☐ Site First Aid (list designated first aiders)
- ☐ Self-Rescue (entrant is able to remove self from the space)
- ☐ Rescue can be carried out without entry into the space (verify training of tending worker)
- ☐ Other (specify): \_\_\_\_\_
- ☐ Class 1 – Internal (>24" Opening with no obstructions) – rescue can be completed from outside the space
- ☐ Class 2 – Internal/External (<24" Opening and/or with obstruction, based on hazard assessment) – rescue plan to be approved by manager, and/or competent EH&S manager or consultant.
- ☐ Class 3 – External (<24" Opening and/or with obstruction) – external rescue team will be onsite
- ☐ All equipment has been inspected

**5. Rescue Plan (continued)**
**Rescue Procedure and Equipment**

Please provide further details on rescue procedures and equipment. Note: Campus Security and or Calgary Fire Department is not an effective rescue plan) and First Aid attendant. (Example: Non-entry rescue standby to winch / pull out Entrant with lifeline)

**6. Worker Details**

The worker in charge of Entrants is referred to as *Tending Worker*:

I, \_\_\_\_\_ certify that my sole duty at this worksite in the time period specified on this permit is as Tending Worker. I will be documenting the continuous monitoring readings (if applicable) and ensuring the Entry / Exit Log is completed in addition to any duties required of the Tending Worker.

Tending Worker (print name and sign)

\_\_\_\_\_

**Entrant(s)**

By signing this document, Entrants acknowledge the following:

- That all Entrant(s) have reviewed this permit in its entirety.
- The conditions and controls are as stated on the permit.
- Are aware of all procedures for the job, communication and emergencies.

Entrant(s) (print name and sign)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**To be approved by a competent, trained and designated University of Calgary Manager or Supervisor or Environmental, Health, and Safety (EH&S):**

All actions and/or conditions for safe entry have been identified. I have verified the conditions as set forth on this permit to be correct and authorize the work to commence.

Department

Print Name

Signature

Phone

A copy of completed permit and related documents must be submitted to approver upon completion of the confined space job. All electronic copies will be saved at designated department shared drive.

- ☐ Permit and accompanying documents completed and posted at work site access point.
- ☐ Must have a Tending Worker designated, must be in constant communication with Entrant(s) via radio, mike phone. Check in time may not exceed intervals of 5 minutes. Any failure to respond to the communication system will place the rescue plan into immediate effect.
- ☐ Communication System – understood by Tending Worker and Entrant(s)
- ☐ Rescue Plan understood by all involved.
- ☐ \* CSA approved Full Body Harness adjusted and inspected in accordance with manufacturer's specifications.
- ☐ \* Lifeline affixed to workers Dorsal D-Ring with snap hook, self-locking carabiner, or rescue knot (unless doing so will create a hazard), inspected in accordance with manufacturer's specifications.
- ☐ Manufacturer's assembly, disassembly, inspection instructions reviewed for all equipment present at site.
- ☐ Entrance adequately controlled to eliminate interference from traffic (pedestrian and/or motorized vehicles).
- ☐ Tending Worker posted at work site entrance with no additional duties.
- ☐ \* Tripod / Davit Arm properly erected and locked.
- ☐ \* Winch (man rated) and/or Haul System tested under load prior to hold being uncovered.
- ☐ 4 head gas monitor appropriate for identified potential hazards (i.e. H<sub>2</sub>S, Oxygen, LEL, CO). Calibration date reviewed, monitor zeroed in known source of clean respirable air, whole volume of space tested.
- ☐ Monitor operator trained in proper working procedure for monitor.
- ☐ Entrant(s) to test atmosphere prior to entering space.
- ☐ Mechanical ventilation is continuous and started minimum of 15 minutes prior to entry until atmospheric testing demonstrates clean respirable air.
- ☐ Rescue equipment on site and inspected by a competent person.
- ☐ Rescue Team has reviewed the permit and/or work site.
- ☐ SABA / SCBA inspected by a competent person. 2000 psi of air minimum.
- ☐ Lanyard or Lifeline selected / adjusted to shortest possible length while still permitting unimpeded movement. **DO NOT USE** if it will create an additional hazard (i.e. get wrapped around piping or machinery).
- ☐ Hole covers are secured, markers and capable of withstanding anticipated weight loads.
- ☐ Rescue Team and equipment on standby at worksite with no additional duties.
- ☐ Approver has reviewed the permit and work site conditions.
- ☐ Continuous monitoring of space conducted.

\*For "TOP" Entry



Type of Monitor:

Monitor must be calibrated and  
bump tested prior to use:

Atmospheric Testing						
Permissible Atmospheric Conditions:		19.5% - 23% Oxygen	<25 ppm Carbon Monoxide	<2.0% LEL Methane	<10 ppm Hydrogen Sulphide	
Location (e.g., ceiling, floor, corner, etc.)	Time	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)	Hydrogen Sulphide (ppm)	Initials

Entry / Exit Record						
Name	Time In	Time Out	Time In	Time Out	Time In	Time Out