

**Department of Facilities Management** 

# **CONFINED SPACE ENTRY**

# EMERGENCY EVACUATION AND RESCUE PLAN

Building	Room No
Confined Space ID #	Work Order No
Date:	
Rescue Plan Completed By:	
Confined Space Entry Supervisor	
Entrant(s)	
Attendant(s)	
Rescue Team Member(s)	
Indicate The Type of Rescue Likely To Be Use to the Rescue Procedures section below for the	
☐ <u>Self Rescue</u> – To be used when implemented compromised, an entrant has sustained an injury entrant's physical or mental ability to self rescue.	
☐ External Rescue — To be used when entrants accommodate the entrant being rescued, there as straight out or straight up.	<del>-</del>
☐ Entry Rescue – To be used when the employed an even floor surface, the extraction route is obstruction, the entrants injuries must be stabilized befor a diagram of the confined space must be complete.	ructed by posts, beams, cables, water, pipes, e attempting a rescue. (When obstructions exist
☐ Immediately Dangerous to Life or Health (II identified during atmospheric testing the work should only be organization.)	
Availability Of The Rescue Team	
Due to the severity of existing or potential hazard explosion, injuries such as burns, being crushed, occurring should the rescue team be:	
$\hfill\square$ Ready and able (available on campus) to res	oond quickly to an emergency
$\hfill \square$	space while entrants are in the confined space.

Type of Communication To Be Used		
☐ Two Way Radio ☐ Cell Phone ☐ Audible Signal ☐ Visual Signal		
□ Other (Explain)		
Required Rescue Equipment		
☐ Communication Devices	☐ Water Pump(s)	
☐ Air Monitoring Equipment	☐ Extension Cords	
☐ Personal Air Quality Monitors	☐ Tools (Specify in Comments Section)	
☐ Ventilation Fans and Hoses	☐ Generator(s)	
☐ Tripod, Winch and Appropriate Length Cable	□ Davit	
☐ Back-Up Lighting (Flashlight, Flood Lights)	☐ Lanyards (Specify lengths in Comments Section)	
Required Rescue Equipment (Cont'd)		
□ Pulleys	☐ First Aid Kit	
☐ Come alongs	☐ Blankets	
☐ Carabiners – XL and LG	☐ Lockout Kits (Locks, Tags, Chains, etc.)	
☐ Decenders / Ascenders	☐ Traffic Cones	
☐ Rigging Slings	□ Tarps	
☐ Sharp Edge Protection (For ropes, slings, etc.)	☐ Rescue Helmets with Head Lamps	
☐ Perimeter Marking Tape, Cones, etc.	☐ Rope Grabs – As per rope size.	
☐ Stretchers	☐ Rope Bags	
☐ Back Board	☐ Gear Bags	
☐ Rescue Rope With Built in Eye Loops	☐ Swivels	
□ SKED	☐ Load Release Strap	
☐ Pick Off Strap	☐ Double Pulleys	
☐ Petzel ID's	☐ Anchor Straps	
Personal Protect	ctive Equipment	
☐ Head Protection (Complete With Chin Strap)	☐ High Visibility Safety Vest	
☐ Safety Boots	☐ Protective Clothing (Specify Type)	
☐ Face and Eye Protection	☐ Harnesses Class E	
☐ Rope Gloves	☐ Hearing Protection	
☐ Air Purifying Respirators Class		

Inspection Of Rescue Equipment and Personal Protective Equipment	
Rescue equipment that will be used has been inspected and a written record of the inspection is	
attached. □ Yes	
All certifications are up to date. ☐ Yes ☐ No	
Competent employee who performed the inspection	
Description Of Confined Space And Any Obstructions	
Diagram Of Interior Of Confined Space	

## **Pre-Rescue Procedures**

**NOTE:** When completing this form add additional procedures for each type of rescue based on the hazards and conditions that exist at each confined space.

### **Prior To A Rescue Team Entering Confined Space**

- Ensure a rescue plan has been completed and a copy will be available at the work site.
- Confirm that an adequate number of rescue team members are available to respond to an emergency.
- Ensure that the Confined Space Inventory and Hazard Assessment Form, the Confined Space Entry Permit, the Rescue Procedures and the Standard Confined Space Entry Procedures for the confined space in question are reviewed with entrants, attendants and the rescue team.
- Ensure that rescue equipment is at the site and set-up.
- Ensure entrants wear a full body harness connected to an appropriate length of lanyard or winch cable.
- Ensure rescuers are attached to a retrieval line prior to entering the confined space.
- Ensure that all employees involved in the confined space entry including the rescue team understand what type of communication will be used and how special signals will work.
- Ensure that all entrants and rescuers understand how and evacuation will be initiated.
- Ensure an alternate competent attendant is appointed if the attendant that was working with the entrants is unable to perform the attendant's duties during a rescue.

#### Attendants - Initiation Of An Evacuation And Participation In A Rescue

- The attendant must maintain constant contact with entrants while they are in a confined space.
- The attendant must evacuate the confined space if they become aware of equipment, critical to the safety of the entrants, malfunctioning or breaking down.
- The attendant shall evacuate a confined space immediately if continuous atmospheric monitoring indicates a hazardous condition exists.
- Upon notification by an entrant of any of the following situations / conditions the attendant must immediately initiate an evacuation:
  - o Change in behaviour or unusual behaviour by another entrant.
  - o Identification of a new hazard.
  - Another entrant performing work in an unsafe way.
  - Work being performed that is not permitted by the entry permit.

- If a rescue must be initiated the attendant shall do the following:
  - Never enter the confined space.
  - Immediately notify the rescue team that a rescue must be initiated.
  - Assist an entrant who is self rescuing.
  - Assist the rescue team as directed by the rescue team leader during external and entry rescues.
- Attendants must evacuate a confined space if there are problems with communication.

### Entrants Response To An Attendants Order To Evacuate A Confined Space

- Entrants shall evacuate a confined space when an attendant gives the order to evacuate.
- Entrants shall report any new hazards or employees performing work that isn't permitted to the attendant.
- Entrants shall report unusual behaviour of other entrants to the attendants.
- Must evacuate a confined space if the attendant must leave their post and a replacement is not immediately available.

# **Rescue Procedures**

#### **Self Rescue Procedures**

Written procedures must be developed to deal with the hazards identified for the above listed confined space and added to the following general procedures for self rescue. (Use additional sheets of paper if necessary.)

- Entrants are to confirm with the attendant that they are evacuating.
- Evacuate in a calm and orderly fashion.
- The attendant must maintain communications with entrants until all entrants are out of the confined space.
- Attendants should contact Dalhousie Security at 4109 to ensure first aid assistance can be immediately available, if required, when entrants exit the confined space.

#### External Rescue Could be the attendant if they are trained as a rescuer. ??

Written procedures must be developed to deal with the hazards identified for the above listed confined space and added to the following general procedures for external / self rescue. (Use additional sheets of paper if necessary.)

- If the entrant is able to communicate, the attendant or rescuers must maintain communication at all times during the extraction.
- Attempt to establish the nature of the injury, or injuries, preventing the entrant from self rescuing so that appropriate first aid or medical attention can be immediately available when the entrant is out of the confined space.
- Contact Dalhousie Security at 4109 and inform them of:
  - o the location of the confined space;
  - that a rescue is in progress
  - that the entrant has been injured; and,
  - the nature of the entrant's injuries to ensure required first aid or medical attention will be immediately available.
- Once the entrant is outside the confined space provide first aid as required.
- Ensure the entrant is comfortable and stay with them until they are stable or an ambulance arrives.

#### **Entry Rescue By Rescue Team**

Written procedures must be developed to deal with the hazards identified for the above listed confined space and added to the following general procedures for self rescue. (Use additional sheets of paper if necessary.)

- On all campuses, including Truro, Call Dalhousie Security at **4109**, explain **what** is happening and **where** and ask them to call 911. (Security must provide 911 with a location where they will me the ambulance in order to take them to the confined space.)
- Attempt to communicate with the Entrants in the confined space to establish what injuries
  exist and what conditions exist that may impede the rescue efforts.
- Check the atmospheric conditions to determine if respirators or supplied oxygen are required.
- Confirm that all communication equipment is working.
- Ensure that an Attendant is in place outside the entry point to assist the rescue team.
- Rescue team enters the space and provides any first aid that may be required to stabilize injured Entrant(s).
- Prepare the Entrant(s) for extraction. This may require the use of stretchers, etc.

Have the Attendant operate the winching system to help remove the Entrant(s) from the confined space.
<ul> <li>Rescuers must ensure the safety of the injured Entrant(s) during the extraction procedure.</li> </ul>
<ul> <li>Once outside the confined, provide any additional first aid required to stabilize the Entrant(s) until an ambulance arrives.</li> </ul>
<ul> <li>Secure area and ensure that no one enters the confined space until it has been re- assessed and deemed safe to enter.</li> </ul>