

# APEX RESCUE GROUP

## CONFINED SPACE HAZARD ASSESSMENT

**Job Number/Location:** \_\_\_\_\_ **Assessed By:** \_\_\_\_\_  
**Confined Space ID:** \_\_\_\_\_ **Company:** \_\_\_\_\_  
**Date/Time of Assessment:** \_\_\_\_\_ **Project:** \_\_\_\_\_  
**Permit number:** \_\_\_\_\_

✓	<b>CONFINED SPACE</b> Must meet ALL the below criteria	✓	<b>PERMIT REQUIRED CONFINED SPACE</b> Must be a confined space and meet ONE of the below criteria
	Not designed for continuous human occupancy		Contains or has a <b>POTENTIAL</b> to contain a hazardous atmosphere
	Has limited or restricted means of entry or exit		Contains a material that has the potential for engulfing an entrant
	Large enough that an employee can bodily enter and perform work		Internal configuration that can entrap/asphyxiate an entrant by inwardly covering walls/floor that slopes downward & tapers to a small cross-section
			Contains <b>ANY</b> other serious safety or health hazard.

Authorized Entry Points	Top	Side	Bottom	Vertical	Horizontal
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COMMUNICATION PROCEDURES					
	Verbal		Radio		Other
RESCUE PROCEDURES					
	Self-Rescue		Non-Entry Rescue		Entry Rescue
	Fire Dept.		Attendant		Rescue Service

INTERNAL HAZARDS							
ATMOSPHERIC				CONFIGURATION			
	PRESENT		EXPLOSIVE		CONVERGING FLR		RETRIEVAL REQ'D
	POTENTIAL		VISIBILITY		DISTANCE		SCAFFOLDING
	O <sup>2</sup> DEFICIENT		THERMAL		ENTANGLEMENT		SWING-STAGING
	H <sub>2</sub> S		DUST/PARTICULATE		AT HEIGHT		LIVE STEAM
	CO		HOT WORK		RESTRICTIONS		LIVE ELECTRICAL
	DECOMPOSITION		SEWER PIPES		SLOPING FLOORS		STORED ENERGY
	RUST/OXIDIZATION		VENT LIMITED		SLIP/TRIP		THERMAL
	TOXIC		MOLD/MILDEW		MULTI-LEVEL		INFRASTRUCTURE
EXTERNAL HAZARDS							
	PRESENT		TOXIC GAS FEED		EXPLOSIVE GAS FEED		WEATHER
	POTENTIAL		HEAVY EQUIPMENT		LADDER ACCESS		TRAFFIC
	ENGINE EXHAUST		OVERHEAD WORK		MECH. ACCESS		OVER WATER
	THERMAL		REMOTE LOCATION		RESTRICTED ACCESS		TRENCHING

RATING	
5	There is an expectation that an incident <b>will occur</b>
4	There is an expectation that an incident <b>could occur</b>
3	There is an expectation that an incident is <b>"unlikely"</b>
2	There is an expectation that an incident is <b>"highly unlikely"</b>
1	There is <b>no expectation</b> that an incident will occur

PERSONAL PROTECTIVE EQUIPMENT																
	Harness					Hearing Protection					Tyvek / FR Rated					
	Hard Hat					Safety Glasses					Life Preserver					
	Personal Monitor					Goggles/Face Shield					Gloves					
	Supplied Air Respirator					Air Purifying Respirator				Acid	Org	DMF	N	R	P	
	SCBA		Line			Half		Full								

REQUIRED SAFETY EQUIPMENT					
	Tripod		Intrinsically safe equipment		Fall Protection
	Lifeline		Air Horns		Atmospheric Monitor (entrant)
	Positive Pressure Blower		Ladder		Emergency Escape Respirators
	Local Exhaust Ventilation		Manhole Gate		Early Warning System
	Radios		Barricades		Portable Lighting

ATMOSPHERIC MONITORING						
TYPE:		SERIAL:			CAL DATE:	
ENTRANCE	TIME:	O <sup>2</sup> :	H <sup>2</sup> S:	CO:	LEL:	
INTERNAL	TIME:	O <sup>2</sup> :	H <sup>2</sup> S:	CO:	LEL:	

  

VENTILATION REQUIREMENTS			
FT <sup>3</sup>	Space Cubic Volume (L x W x H)	CFM	Required Capacity (Ft <sup>3</sup> X ACH) ÷ 60
CFM	Mechanical Ventilation per Minute	CFH	Mechanical Ventilation per Minute X 60
ACH	(Mechanical Ventilation per Minute X 60) ÷ (Cubic Volume of Space)		
**Fans must supply at least 0.35 air exchanges (ACH) per hour to be considered safe /AIHA considers 20 air exchanges per hour acceptable**			
<input type="checkbox"/> **Check box if a ventilation plan has been completed **			

ACCEPTABLE ENTRY CONDITIONS			
	Confined Space Entry permit posted		LOTO electrical components
	Oxygen 19.5-23.5%		LOTO mechanical components
	Lower Explosive Level (less than 10%)		Attendant Posted at entrance
	Toxic Fumes/Vapors less than PEL		Mechanical Ventilation established
	No engulfing material in space		No hazardous chemicals or materials
	Continuous Air Monitoring		Rescue Team Notified & Available
	Drained/Flushed		Pre-entry brief completed
	Max Internal Temperature: _____ °F		Minimum Internal Temperature: _____ °F

Draw diagram of space here			
LENGTH: _____	WIDTH: _____	HEIGHT: _____	CFM: _____