

MODULE 1: DESCRIBE THE CONFINED SPACE

Company Name: IRSST

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Name of confined space: Manhole

Internal reference no.: S.O.

Purpose/Use: Access to a water main pipe valve

Shape: Cylindrical

Dimensions: 6 ft in diameter and 11 ft deep

Interior volume: About 300 cubic ft

Location: At the corner of X and Y streets



Configuration of confined space

1 Is the confined space stationary or mobile? ☒ Stationary ☐ Mobile

2 Is the confined space partially enclosed (e.g., basin, pit, ditch) or completely enclosed?

☐ Partially enclosed ☒ Completely enclosed

- Walls are made of: ☒ Concrete ☐ Steel ☐ Stainless steel ☐ Other

- Thickness of walls: *N/A*

3 How many entrances are there to the confined space? What are the dimensions of each entrance?

☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Entrance no. 1: ☒ Round ☐ Rectangular ☐ Square ☐ Oval

Is its diameter or smallest side less than 610 mm (24 in.)? ☐ Yes ☒ No

Is access to the confined space vertical or horizontal? ☒ Vertical ☐ Horizontal

- Depth or height in the confined space: *11 ft*

- Means of access: ☐ Fixed ladder ☒ Ladder rungs ☐ Other. Specify: *N/A*

- Condition of means of access: ☒ Good ☐ Poor ☐ Very poor

4 Does the design of the confined space entail one or more of the following hazardous situations?

- ☒ Inadequate natural or mechanical ventilation
- ☐ Restricted interior volume, limiting possible movements in the space (e.g., low ceiling, narrow section)
- ☐ Moving around is difficult because of obstacles (on ground or at height), converging walls, curved floor, compartments, different levels or a noticeable slope
- ☐ Structural weaknesses such as cracks, collapse, corrosion, deformation
- ☐ Presence of sharp, pointed structural features
- ☒ Insufficient light
- ☐ Extreme temperature/humidity (see Schedule V of the ROHS)
- ☐ High noise level (without work)
- ☐ None of the above

5 Does the content or general use of the confined space entail one or more of the following risk factors?

- ☒ Simple asphyxiant (e.g., methane, carbon dioxide) or chemical (e.g., carbon monoxide).
- ☐ Flammable or explosive material, or combustible dust.
- ☐ Toxic substance.
- ☐ Irritant (e.g., gas causing irritation).
- ☐ Corrosive (e.g., acid, alkaline).
- ☐ Carcinogen (e.g., radioactive substance).
- ☒ Decomposition products, sediments, residues, slow oxidation, biological pathogens, allergens.
- ☒ Animals or insects.
- ☐ None of the above

6 Is the confined space connected to pipes, drains or a tank (e.g., risk of uncontrolled introduction or return of products, risk of drowning, equipment upstream/downstream)?

- ☒ Yes ☐ No If yes, specify the possible risk factors:
- ☐ Simple asphyxiant (e.g., methane, carbon dioxide) or chemical (e.g., carbon monoxide).
 - ☐ Flammable or explosive material, or combustible dust.
 - ☐ Toxic substance.
 - ☐ Irritant (e.g., gas causing irritation).
 - ☐ Corrosive (e.g., acid, alkaline).
 - ☐ Carcinogen (e.g., radioactive substance).
 - ☐ Decomposition products, sediments, residues, biological pathogens, allergens or possibility of slow oxidation.
 - ☒ Drowning
Specify: *Water pipe*
 - ☐ None of the above

7 Is any equipment (e.g., pump) permanently installed?

- ☐ Yes ☒ No If yes, specify: N/A

8 Does the confined space contain any free-flowing materials (e.g., grain, sand, flour) that expose workers to a risk of being engulfed?

☐ Yes ☒ No If yes, specify: *N/A*

Environment of the confined space

9 Is the access to the confined space...

- ☐ Isolated (e.g., far from another structure, hard to reach by vehicle)?
- ☐ Difficult (e.g., at height, at end of narrow stairwell, on unstable ground)?
- ☐ In another confined space or in a hazardous restricted access room?
- ☒ None of the above

10 Is the work area around the entrance...

- ☒ Exposed to road traffic or to a roadway within a facility?
- ☐ In another work area (e.g., workstation with operating stationary machinery)?
- ☐ Poorly set up (e.g., very little room, slope, ragweed, mud)?
- ☐ None of the above

11 Are there other risk factors nearby that could affect the conditions in the confined space (e.g., work nearby, gas migration through walls, introduction of exhaust gases)?

- ☐ Yes ☒ No If yes, specify the type of effect possible
- ☐ Change in atmospheric conditions
 - ☐ Introduction of chemicals
 - ☐ Weakened structural strength
 - ☐ Change in surface temperatures
 - ☐ None of the above