



**STOP** if not clear how to do the work

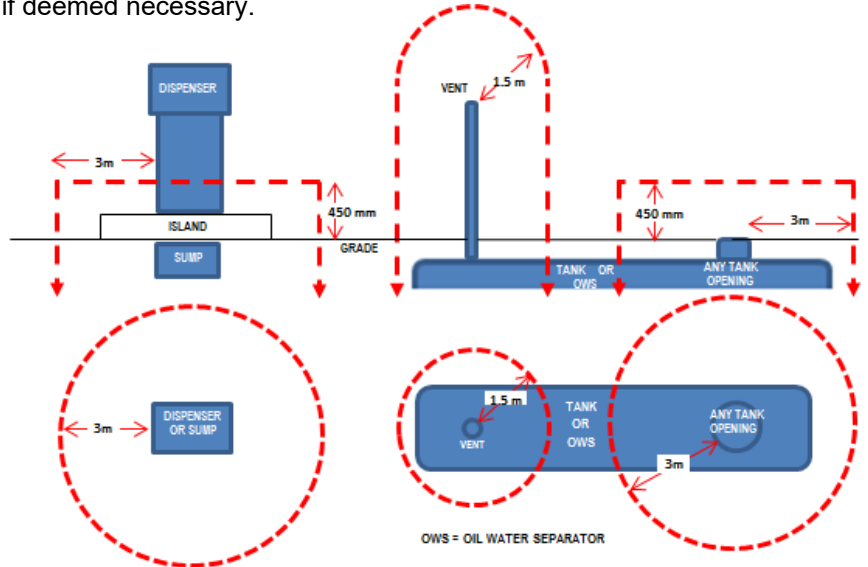
# Hot Work in a Hazardous Atmosphere | Critical Checklist



## When to use

**Important: Attach to applicable JSAs**

- When performing any welding, cutting, grinding, or excavation using heavy equipment within the designated areas shown below.
- The use of hand tools within the designated areas is to be assessed for risk of ignition source and mitigated as required using hot work critical procedures, if deemed necessary.
- Hot work activities outside designated areas should be assessed for risk of hazardous/flammable atmosphere, and follow hot work critical procedures as deemed necessary.
- Fire Retardant Clothing (FRC) to be worn by all workers within designated area during hot work activities
- Hot work is any work involving arcing/sparking devices, or work where flame is used or sparks are produced.



Work Order Number:

Site Location:

Contractor:

Date:

Description of work/equipment that is hot work:

What could go wrong?

## BEFORE Starting All Hot Work

### Done

1. Hot Work cannot proceed unless LEL is 0%
2. Identify and mitigate all sources of potential explosive vapors e.g. fuel, sewer, chemicals, vent lines, flanges. Isolate and/or Lock Out Tag Out any equipment that may produce an explosive atmosphere
3. Erect proper barricades and place charged fire extinguisher within reach
4. Emergency response procedures are understood by and reviewed with all workers
5. Assign a worker as dedicated Fire Watch for duration of Hot Work and if applicable, following Hot Work if potential for fire remains.
6. Complete standardized check (bump test) on Explosive / LEL meter- Record on pg 2
7. Perform atmospheric testing immediately prior to work commencing and continuously during hot work using a certified testing device - see Log on pg 2
8. Electrical equipment is explosion proof or intrinsically safe where possible
9. All Hot Work activities are stopped during fuel deliveries
10. If possible, reduce potential sources of explosive vapours through use of mechanical ventilation or use of fire blankets, cover, or other possible means.



Name of worker:

Signature:

Date:

Name of fire watch:

Signature:

Date:



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## Equipment Calibration And Bump Test

Gas testing equipment has been calibrated to manufacturer's specifications. Bump testing has been completed daily and results recorded prior to use.

Instrument/Serial # \_\_\_\_\_

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

## Atmospheric Testing Log

Monitor atmosphere continuously during the work with the appropriate equipment (e.g. Explosive/LEL meter) and record in log immediately prior to beginning Hot Work and then every 15 minutes during work

**STOP HOT WORK when atmospheric test results are outside the acceptable ranges  
MUST be 0% LEL for work to proceed**

Acceptable Ranges	Initial Sample Elevation if Confined Space	For Hot Work Only		Also complete if Hot Work in Confined Space		Other	PRINT Name of Tester	Tester Initials
		20.0-23.0	Zero	<25	<10			
Time of Reading	Top/Middle/Bottom	%O2	%LEL	CO ppm	H2S ppm			
IMMEDIATELY prior to start								

## Confined Space Entrant Log (Per #13 of Confined Space critical checklist, complete only if hot work is being conducted in confined space)

### List of workers entering the confined space

Name	Time In	Time Out	Time In	Time Out	Time In	Time Out	Time In	Time Out