

Job Safety Analysis Sheet

Job: Manual Excavation

JSA Ref. No.

Facility:

Work Area / Equipment:

Permit No.
Date:

PERSONAL PROTECTIVE EQUIPMENT & TOOLS NEEDED FOR WORK ACTIVITIES: Hard Hat, Safety Shoes, Safety Goggles, Hand Gloves, Dust Mask, Barriers, Ladder, Guardrail, Polling Board

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	Yes / No	PRECAUTIONS
Pre - work	Presence of EOD		<ul style="list-style-type: none"> Ensure the area to be excavated is declared EOD cleared.
	Location of Underground / Aboveground Services (such pipeline, cables etc)		<ul style="list-style-type: none"> Locate underground / aboveground services referring to the site map / drawing. Endorsements in Excavation Notification from the concerned Teams for the services in the area to be excavated. Hold pre-job safety meeting
	Non-compliance of KOC -HSEMS Procedures, F & S Regulations or Engineering Standards		<ul style="list-style-type: none"> Get authorization for Cold Work Permit Conduct Toolbox Talk
Excavation	Damage to underground / aboveground Services (such pipeline, cables etc)		<ul style="list-style-type: none"> Check for underground / aboveground services through metal detectors. Isolate services as needed through authorized permit.
	Cave-in's of excavation		<ul style="list-style-type: none"> Utilize sloping, benching & shoring as needed
	Collapse of Excavated Materials		<ul style="list-style-type: none"> Keep excavated material at least 1 meter away from the edge of the trench. Inspection for soil condition before starting excavation work.
	Accidental fall of equipment		<ul style="list-style-type: none"> Keep the equipment away from the edge of the trench. Wear appropriate PPE
	Possibility of toxic / flammable gas		<ul style="list-style-type: none"> Carry out gas test before excavating in hazardous area.
	Blocking Emergency Equipment		<ul style="list-style-type: none"> Ensure the approach to Emergency Equipment is not blocked due to open trenches.
Post Excavation	Unattended trenches		<ul style="list-style-type: none"> Barricade the trenches Use warning signs & lights
	Trenches left open for extended period		<ul style="list-style-type: none"> Close the trench, backfill and compact the area. Close the permit after making the site clean & tidy.
Additional Hazards (Other than indicated above)			
JSA Done By	<p>Name: _____ Designation: _____</p> <p>Controlling Team: _____ Company: _____</p> <p>Signature: _____ Contract No.(If Applicable): _____</p> <p>Date: _____</p>		

Job Hazards Analysis For Manual Excavation

Ying Liu



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