

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	<div> <div>Name:</div> <div>Designation:</div> <div>Company:</div> <div>Contract No.(If Applicable):</div> <div>Date:</div> </div> <div> <div>Controlling Team:</div> <div>Signature:</div> </div>		

Job Hazards Analysis For Manual Excavation

Ram S. Gupta



Job Hazards Analysis For Manual Excavation:

Integrating Occupational Safety and Health using Digital Technologies Manuel Tender, Matej Mihic, Firmino Oliveira da Silva, João Pedro Couto, Paul Anthony Fuller, Peter Demian, Kitty Karolyfi, Rania Wehbe, Radhlinah Aulin, 2025-11-18 This book is designed to help practitioners understand the growing potential for the use of Building Information Modelling BIM to improve Occupational Safety and Health OSH outcomes in the Architecture Engineering Construction and Operations sector Through a series of cutting edge practical cases an international team of researchers and practitioners examine the benefits barriers and challenges associated with the introduction of new digital information technologies in OSH settings Covering training risk identification site planning site monitoring emergency planning and accident investigation the book shows how the use of BIM paves the way for better streamlining of prevention planning by making it more visible and understandable The BIM applications presented allow for OSH to be closely linked to production thus creating the conditions for an effective integration of OSH within the construction processes associated with building operations and management The book introduces BIM as an enabler of improved OSH performance in construction projects Precise BIM applications are presented which are directly related to OSH performance Backed by research the BIM applications are presented in a practical manner making them easily applicable by the construction project professional as well as informative for the academic researcher

Occupational Health and Safety Technical Assistance Manual ,1993 Federal Register ,2014 **Occupational Hazards** ,1990-07 **Job Safety & Health Quarterly** ,1990 Occupational Safety & Health Cases Bureau of National Affairs (Arlington, Va.),1995 *Fundamentals of Occupational Safety and Health* Mark A. Friend, James P. Kohn, 2003-06 Fundamentals of Occupational Safety and Health serves as an excellent introductory reference for both students and professionals who are new to the safety field Readers will gain practical knowledge of the technology management and regulatory compliance issues and learn about crucial topics like organizing staffing directing and evaluating the system All major topics are addressed in this comprehensive new edition and all major changes made to OSHA s recordkeeping standards are included as well as a new chapter covering the issues and concerns raised by the threat of terrorism The Building Estimator's Reference Book ,2002 *CORPS-SAFE* Bruce Andrew Fink, Stanford University. Center for Integrated Facility Engineering, 1989 Occupational safety and health cases ,1995 Professional Safety ,2003 *Machine Tool Technology, Mechatronics and Information Engineering* Zhong Min Wang, Dong Fang Yang, Kun Yang, Liang Yu Guo, Jian Ming Tan, 2014-09-22 Selected peer reviewed papers from the 2014 International Conference on Machine Tool Technology and Mechatronics Engineering ICMTTME 2014 June 22 23 2014 Guilin Guangxi China **Introduction to Environmental Engineering and Science** Ram S. Gupta, 2004 The new Introduction to Environmental Engineering and Science covers the basics needed to understand technology manage resources control pollution and successfully comply with the regulations Thoroughly updated and expanded this edition features a new chapter and new coverage on risk and uncertainty analyses

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