

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

W. David Yates



Job Hazards Analysis For Manual Excavation:

Job Hazard Analysis James Roughton, Nathan Crutchfield, 2015-11-25 Job Hazard Analysis A Guide for Voluntary Compliance and Beyond Second Edition provides a complete reference for performing JHA and setting up a JHA program The book identifies the basic job steps and tasks their associated hazards and risks and safe operating procedures and hazard controls based on this analysis Authors James Roughton and Nathan Crutchfield argue that the JHA should be the centerpiece of any risk control and occupational safety and health program However the traditional JHA has potential problems in gathering and analysis of task data and with its focus on the sequence of steps can miss the behavioral effects and the systems interactions between tools equipment materials work environment management and the individual worker The concepts are presented for the JHA incorporating elements from Behavior Based Safety and Six Sigma Readers are taken through the whole process of developing tools for identifying workplace hazards developing systems that support hazard recognition developing an effective JHA and managing a JHA based program that can be easily incorporated into occupational safety and health management systems thus allowing businesses to move from mere compliance to a pro active safety management The book is supported by numerous examples of JHAs end of chapter review questions sample checklists action plans and forms Provides a basic understanding of the JHA process and a more in depth background on the human performance improvement for a successful JHA program implementation Methodically develops the risk assessment basics needed within the JHA process Presents expanded resources that are useful in safety systems Incorporates elements from Behavior Based Safety and Six Sigma **Power System Maintenance Manual**, 1992 *Working Posture Assessment* Daniela Colombini, Enrico Occhipinti, 2018-09-03 This book covers how to analyze awkward working postures particularly of the spine and lower limbs in specific groups exposed The methods covered suggests how to evaluate the postures correctly taking account of the duration and sequence of the tasks involved even in very complex scenarios where workers are involved with multiple tasks and work cycles varying from day to day Excel spreadsheets located on the authors website www.epmresearch.org have been developed to gather condense and automatically process the data The tools serve to implement the strategy for calculating risk associated with exposure to awkward postures i e the TACOS method Included are 5 case studies which include physiotherapists workers from construction archaeological digs vineyards and kindergarten teachers Features Provides a coherent definition of what the study of awkward postures is Clarifies and explains which parameters need to be detected and analyzed for the study of the working postures Defines the phases of a proper organizational study e g tasks postures duration and how often the postures will last in the working cycle Presents a new and original risk calculation model for awkward postures with particular attention to the study of the spine and the lower limbs Offers a free excel spreadsheet located on the authors website which implements the strategy for calculating risk associated with exposure to awkward postures **Final Work Plan for the Ordnance and Explosive (OE) Response Action for the**

Engineering Evaluation and Cost Analysis (EE/CA) ,2005 **Federal Register** ,2014 *Occupational Health and Safety Technical Assistance Manual* ,1993 Guidelines for Integrating Process Safety into Engineering Projects CCPS (Center for Chemical Process Safety),2018-11-12 There is much industry guidance on implementing engineering projects and a similar amount of guidance on Process Safety Management PSM However there is a gap in transferring the key deliverables from the engineering group to the operations group where PSM is implemented This book provides the engineering and process safety deliverables for each project phase along with the impacts to the project budget timeline and the safety and operability of the delivered equipment *Water and Waste Water Utilities* Felix J. Powell,2022-11-06 The book is a comprehensive coverage of underground utilities i e sewer water and water distribution lines Step by step instruction and principles are introduced in a simple and illustrated way in an effort to demonstrate in the field situations the book provides a chronological history of water and wastewater distribution as well as emerging technologies and methods being utilized today It presents educational material that can be applied in real time Municipal workers construction technicians and engineers with a basic working knowledge of underground utilities will greatly benefit from this book This book is written specifically for those interested in maintenance and repair of large water and wastewater distribution lines as well as water supply and storm water drainage Construction Safety Handbook Mark McGuire Moran,2003-07-01 This much anticipated new edition provides employers and employees with a day to day guide to reducing accidents and injuries ensuring compliance avoiding fines and penalties and controlling workers compensation costs You ll not only find comprehensive discussions on all of the construction safety regulations found in the Code of Federal Regulations CFR Title 29 Part 1926 but you ll also find the actual legal text of the regulations and overviews for each subpart for easier reference This Construction Safety Handbook covers both the obvious and the hidden dangers of construction and addresses the latest changes in OSHA standards including new recordkeeping requirements new ergonomic guidelines new requirements in the Steel Erection standard and new additions to signs signals and barricades requirements Written in plain English this comprehensive handbook provides you with the legal background practical advice and ready to use written compliance programs you need to ensure your sites meet workplace safety requirements protect workers and comply with the standards Each chapter provides a description of the requirements of the standard and a sample written compliance program checklists and the appropriate citations from the 29 CFRs The latest changes in enforcement and inspection policy are also detailed and a list of OSHA s most frequently cited construction standards is given *Electrical Safety Code Manual* Kimberley Keller,2010-07-19 Safety in any workplace is extremely important In the case of the electrical industry safety is critical and the codes and regulations which determine safe practices are both diverse and complicated Employers electricians electrical system designers inspectors engineers and architects must comply with safety standards listed in the National Electrical Code OSHA and NFPA 70E Unfortunately the publications which list these safety requirements are written in very technically

advanced terms and the average person has an extremely difficult time understanding exactly what they need to do to ensure safe installations and working environments Electrical Safety Code Manual will tie together the various regulations and practices for electrical safety and translate these complicated standards into easy to understand terms This will result in a publication that is a practical if not essential asset to not only designers and company owners but to the electricians who must put compliance requirements into action in the field Best practice methods for accident prevention and electrical hazard avoidance Current safety regulations including new standards from OSHA NEC NESC and NFPA Information on low medium and high voltage safety systems Step by step guidelines on safety audits Training program how to s from setup to rescue and first aid procedures

Project Risk Analysis Derek Salkeld, 2016-04-08 Projects overspend and overrun Business cases perform less well than expected Managers tighten their grip and initiate more procedure But little changes and the scenario repeats and it has done so for decades Losing other peoples money and goodwill is almost an innate characteristic of projects This may be a norm but it need not be the natural state of affairs In Project Risk Analysis Derek Salkeld shows how easily assimilated techniques developed out of formal risk analysis methods can be used to increase the chances of projects being delivered to the oft quoted objective of on time and to budget to quality and to popular acceptance These techniques need to be understood by managers so that they can foresee the benefits of directing their teams to carry them out and so they can inform their clients about the potential consequences of the investments they wish to make and how the project team plan to assure these The three parts of the book explain how you can calculate the funding required for a simple short project using risk based methods to generate answers that are more accurate than traditional estimating apply the techniques to inform an investment decision for a major project taking into account whole of life costs operations and revenues design and implement specific management controls that will assure the outcomes of the investment decisions Risk and opportunity are inherent in projects and yet whilst many organizations invest heavily in project management methodologies and processes few project sponsors project board members or managers understand the effect these might have The approach taken in the book is to understand how the risk and opportunity in a project will affect its funding requirements and its business case outcomes and to use this understanding to devise management controls that will benefit both the investor and the project manager This is essential reading for anyone concerned with adding value to projects programmes and the organizations for which they are delivering them

Publications of the U.S. Department of Labor
United States. Department of Labor. Office of Information and Public Affairs, 1989 *Safety Professional's Reference and Study Guide, Fourth Edition* W. David Yates, 2025-03-19 For safety professionals navigating the complexities of safety practices daily the search for a single source guide covering diverse topics has been an ongoing quest Now in its fourth edition Safety Professional s Reference and Study Guide has expanded its scope incorporating crucial new chapters on legal aspects of the safety profession recordkeeping sustainability principles and more catering to the evolving needs of the

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