

Work scope details:

Title: Move Cabinet to the Basement

Work Scope Summary: This work plan outlines the procedure for removing a floor plug and utilizing a crane to safely move a cabinet from the ground level to the basement of Building 8700. The operation requires careful coordination and adherence to safety protocols to mitigate risks associated with hoisting and rigging, as well as elevated work.

Key Work Scope Components:

- Removal of floor plug
- Use of crane for cabinet relocation
- Posting of warning signs for open holes
- Implementation of fall protection measures

Relevant previous events and lessons learned:

Event Title	Event Summary	Lessons Learned	Reference Link
Crane Accident at XYZ Facility	A crane operator lost control while moving a heavy load, resulting in the load falling and injuring a worker.	Importance of ensuring load stability and proper communication among team members during crane operations.	OSHA Crane Safety
Fall from Height Incident	A worker fell from an unprotected edge while performing maintenance work at height, resulting in serious injuries.	Necessity of implementing and enforcing fall protection measures for all work above 4 feet.	OSHA Fall Protection
Improper Tool Use	An incident occurred when a worker used a tool not suited for the task, leading to equipment failure and minor injuries.	Ensure proper tool selection and training for all personnel involved in equipment handling.	Tool Safety Guidelines
Electrical Hazard Exposure	A maintenance crew encountered live wires while moving equipment, leading to a near-miss incident.	Conduct thorough inspections and ensure de-energization of electrical systems before work begins.	OSHA Electrical Safety
COVID-19 Exposure Incident	A worker contracted COVID-19 due to inadequate social distancing and mask usage during a group task.	Reinforce the importance of PPE and social distancing protocols in all work environments.	CDC COVID-19 Guidelines

Missing Hazards:

Hazard	Missing or Inadequate Mitigation in Current Work Control Document	Recommended Mitigation for Revision	Reference Link	SBMS Link
Material Handling	Not addressed	Implement a manual handling assessment and training for workers involved in moving the cabinet.	N/A	N/A
Overhead Work	Not addressed	Ensure that all personnel are trained in overhead work safety and that a designated spotter is used during crane operations.	N/A	N/A
Open Hole Hazard	Inadequate warning signage	Use highly visible and durable signage to indicate the open hole, and consider physical barriers to prevent access.	N/A	N/A
Fall Protection	Not adequately specified	Specify the type of fall protection equipment required (e.g., harness type, lanyard length) and ensure proper training on its use.	N/A	N/A
COVID-19 Risks	Not addressed	Implement a daily health screening protocol and ensure compliance with mask-wearing and social distancing measures.	N/A	N/A
Noise Exposure	Not addressed	Conduct a noise assessment and provide hearing protection if noise levels exceed permissible limits.	N/A	N/A
Tool Safety	Not addressed	Ensure that all tools used are inspected prior to use and that operators are trained in their safe operation.	N/A	N/A
Communication Failures	Inadequate communication plan	Develop a clear communication plan for all team members, including hand signals for crane operations and regular safety briefings.	N/A	N/A
Time Pressure	Not addressed	Establish realistic timelines for the job and ensure that workers are not rushed, which could lead to safety violations.	N/A	N/A

Hazard	Missing or Inadequate Mitigation in Current Work Control Document	Recommended Mitigation for Revision	Reference Link	SBMS Link
Environmental Conditions	Not addressed	Assess for environmental hazards (e.g., temperature extremes) and provide appropriate PPE or work modifications.	N/A	N/A
Equipment Failure	Not addressed	Conduct thorough pre-use inspections of the crane and other equipment to ensure they are in safe working condition.	N/A	N/A

Failure mode analysis:

Current Control	Failure Mode of the Control	Effect of Failure	Cause of Failure	Recommended Action
Crane Operation Procedures	Permit not obtained or expired	Unauthorized use of crane leading to accidents	Lack of oversight in permit management	Implement a digital tracking system for permits to ensure current status is visible to all team members.
PPE Requirements	PPE not used or inadequate	Increased risk of injury from falls or impacts	Lack of enforcement or training on PPE usage	Conduct mandatory PPE training sessions and regular audits to ensure compliance.
Work Instructions	Instructions not followed or unclear	Increased likelihood of accidents due to improper procedures	Vague or poorly communicated instructions	Revise work instructions to be clear and concise, and conduct a pre-job briefing to clarify expectations.

Current Control	Failure Mode of the Control	Effect of Failure	Cause of Failure	Recommended Action
Communication Protocol	Miscommunication during crane operations	Potential for accidents due to lack of coordination	Inadequate communication methods	Establish a standardized communication protocol, including the use of radios or hand signals.
Emergency Response Plan	Emergency procedures not known or practiced	Delayed response to incidents, worsening outcomes	Lack of training or drills	Schedule regular emergency response drills and ensure all team members are familiar with the plan.
Tool Availability	Tools not available or inadequate	Increased risk of using improper tools, leading to accidents	Poor inventory management	Maintain an inventory checklist and conduct regular inspections to ensure all necessary tools are available and in good condition.
Training and Competency	Workers not adequately trained	Increased risk of accidents due to lack of knowledge	Insufficient training programs	Develop a comprehensive training program that includes hands-on practice and assessments for all workers involved.
Traffic Control Measures	Traffic control not implemented	Increased risk of accidents with personnel or equipment	Lack of awareness or enforcement	Designate a traffic control officer and establish clear traffic patterns and signage around the work area.

Current Control	Failure Mode of the Control	Effect of Failure	Cause of Failure	Recommended Action
Fall Protection Equipment	Fall protection not utilized or inadequate	Increased risk of falls from height	Lack of training or awareness	Ensure that all workers are trained in the proper use of fall protection equipment and conduct regular inspections.
Health and Safety Monitoring	Health risks not monitored	Increased risk of illness or injury	Lack of monitoring systems	Implement a health and safety monitoring system to track worker health and safety compliance.

This comprehensive risk assessment report provides a detailed analysis of potential hazards associated with the work plan to move a cabinet to the basement, along with relevant historical events, missing hazards, and failure modes to ensure a safe and effective operation.