

Work scope details:

Title: Mold Remediation at Building 7965D

Work Scope Summary: This work plan outlines the procedures and safety measures required for mold remediation activities at Building 7965D, including the removal of contaminated drywall and ceiling tiles, cleaning of surfaces, and HVAC system maintenance. A containment barrier will be established to ensure safety during the remediation process.

Key Work Scope Components:

- Erecting a containment barrier with an air-lock and decontamination chamber.
- Removal of affected drywall, ceiling tiles, and insulation.
- Cleaning of walls, floors, and HVAC systems.
- Conducting pre and post air quality testing.
- Installation of self-adhesive film for floor protection.

Relevant previous events and lessons learned:

Event Title	Event Summary	Lessons Learned	Reference Link
Mold Contamination Incident at XYZ Facility	A mold outbreak led to severe health issues for employees due to inadequate containment measures during remediation.	Importance of proper containment and air quality monitoring during mold remediation.	N/A
HVAC System Contamination	An HVAC system was contaminated during maintenance, leading to widespread mold spores being circulated.	Ensure thorough cleaning and inspection of HVAC systems before and after remediation.	N/A
Ladder Safety Violation	A worker fell from a ladder while removing ceiling tiles, resulting in injury.	Emphasize ladder safety training and proper use of fall protection when working at heights.	N/A
Chemical Exposure Incident	Workers were exposed to hazardous chemicals during cleaning, leading to respiratory issues.	Ensure proper PPE is worn and that safety data sheets are reviewed before using chemicals.	N/A
Electrical Shock Incident	An electrical shock occurred due to improper lockout/tagout procedures during HVAC cleaning.	Reinforce lockout/tagout protocols and ensure all personnel are trained in energy control procedures.	N/A

Missing Hazards:

Hazard	Missing or Inadequate Mitigation in Current Work Control Document	Recommended Mitigation for Revision	Reference Link	SBMS Link
Lack of PPE for Chemical Handling	Not addressed	Mandatory use of gloves, goggles, and respirators when handling cleaning agents.	N/A	N/A
Inadequate Fall Protection	Not addressed	Implement a fall protection plan including harnesses and guardrails when working on ladders.	N/A	N/A
Confined Space Entry	Not addressed	Conduct a confined space assessment and implement a permit system for any confined spaces.	N/A	N/A
Poor Air Quality Monitoring	Inadequate monitoring procedures	Establish continuous air quality monitoring during remediation activities.	N/A	N/A
Electrical Hazards	Inadequate lockout/tagout procedures	Ensure all personnel are trained in lockout/tagout procedures and conduct a pre-job briefing.	N/A	N/A
Overexertion from Manual Handling	Not addressed	Implement mechanical aids for lifting heavy materials and provide training on safe lifting techniques.	N/A	N/A
Noise Exposure	Not addressed	Provide hearing protection and conduct noise assessments in high-noise areas.	N/A	N/A
Inadequate Communication	Vague guidance on roles	Clearly define roles and responsibilities in the work plan and conduct pre-job briefings.	N/A	N/A

Failure mode analysis:

Current Control	Failure Mode of the Control	Effect of Failure	Cause of Failure	Recommended Action
Lockout/Tagout Procedures	Permit not obtained or expired	Risk of accidental energization during HVAC cleaning	Lack of adherence to procedures	Conduct regular audits of lockout/tagout compliance.

Current Control	Failure Mode of the Control	Effect of Failure	Cause of Failure	Recommended Action
PPE Requirements	PPE not used or inadequate	Increased risk of chemical exposure and injury	Lack of training or enforcement	Mandatory PPE training and compliance checks before work begins.
Pre-job Briefing	Incomplete communication of hazards	Workers unaware of potential risks	Poor communication practices	Standardize pre-job briefings and document attendance.
Air Quality Monitoring	Monitoring equipment failure	Inability to detect airborne contaminants	Equipment malfunction or lack of maintenance	Regularly test and calibrate air quality monitoring equipment.
Emergency Response Plan	Lack of clarity on emergency procedures	Delayed response to incidents	Insufficient training	Conduct regular emergency drills and update response plans.
Training and Competency Verification	Inadequate training records	Unqualified personnel performing tasks	Poor record-keeping	Implement a centralized training management system to track certifications.
Tool Availability	Tools not available or inadequate	Delays in work and increased risk of accidents	Poor inventory management	Maintain an inventory checklist and conduct regular tool audits.
Communication Protocols	Miscommunication among team members	Increased risk of errors and accidents	Lack of defined communication channels	Establish clear communication protocols and use checklists for task completion.

This risk assessment report provides a comprehensive overview of the potential hazards associated with the mold remediation work at Building 7965D, along with actionable recommendations to mitigate these risks effectively.

