

CREW DETAILS

IN AN EMERGENCY CALL:

Crew Leader:	Project Phone Number:
Crew:	

PROJECT OVERVIEW

Purpose of Project:	Date of Project:
<p>Benefit of Project: Ensures environmentally responsible waste disposal. Facilitates accurate site assessment and preparation. Minimizes disruption to surrounding areas and communities. Prepares sites for new construction efficiently and safely. Reduces potential hazards from old structures and debris. Supports timely project progression and scheduling.</p>	

HAZARDS

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Chemical spills	Health risks to workers, Environmental contamination, Delays due to cleanup	Facilitates controlled demolition of sites with industrial residues.	Store chemicals in spill-proof containers and use containment trays. Train workers in spill response procedures and provide spill kits on-site. Implement emergency response drills regularly. (ALL)	Workers, Environment	Before Measure: High After Measure: Med
Confined space entry	Asphyxiation, Injuries from entrapment, Delays due to emergencies	Enables safe dismantling of enclosed areas like basements or tanks.	Test air quality before entry. Equip workers with confined space entry kits, including ventilators and escape gear. Use a permit-to-work system to track confined space activities and provide immediate emergency support. (ALL)	Workers	Before Measure: High After Measure: Med

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Dust inhalation	Respiratory issues, Reduced visibility on site, Contamination of nearby areas	Enables the removal of materials like concrete and drywall without excessive preparation, improving productivity.	Use wet methods to suppress dust at its source. Position industrial fans or ventilation systems to disperse airborne particles. Mandate the use of dust masks or respirators for all site personnel. Regularly monitor air quality to stay within safe limits. (ALL)	Workers, Nearby residents	Before Measure: High After Measure: Med
Exposure to airborne contaminants	Respiratory illnesses, Contamination of nearby areas, Delays due to health issues	Enables operations in contaminated areas, maintaining progress on site clearance.	Conduct regular air quality monitoring. Equip workers with advanced filtration respirators. Use air scrubbers or exhaust systems to maintain safe breathing zones. Wet down debris and clean areas regularly to reduce particle accumulation. (ALL)	Workers, Nearby residents	Before Measure: High After Measure: Med
Exposure to hazardous chemicals	Health risks such as burns or poisoning, Environmental contamination, Delays due to spills	Allows for the efficient handling and removal of contaminated materials.	Identify and inventory all chemicals before demolition. Store chemicals in clearly marked, ventilated containers. Provide workers with PPE such as gloves and chemical-resistant clothing. Implement spill response procedures. (ALL)	Workers, Environment	Before Measure: High After Measure: Med
Exposure to hazardous materials (e.g., asbestos)	Health risks due to toxic exposure, Environmental contamination, Legal penalties for improper disposal	Ensures compliance with environmental standards, preventing fines while allowing site reuse.	Conduct pre-demolition surveys to identify hazardous materials. Employ certified asbestos removal specialists, and follow strict containment and disposal procedures. Provide workers with suitable respirators and PPE. (ALL)	Workers, Environment	Before Measure: High After Measure: Med

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Exposure to lead-based materials	Lead poisoning, Environmental contamination, Delays in site approval	Facilitates safe removal of older materials, preserving heritage elements when needed.	Test for lead presence before starting. Use certified contractors for lead paint removal. Implement strict containment measures, including negative air pressure systems, and provide appropriate PPE like respirators and gloves. (ALL)	Workers, Environment	Before Measure: High After Measure: Med
Falling into excavations	Severe injuries, Delays in rescue operations, Legal liabilities	Allows work on foundational structures or utilities without delaying other tasks.	Secure all excavation sites with barriers and warning signs. Use stable access points such as ladders or scaffolds. Inspect excavations daily for changes in stability, especially after weather changes or heavy machinery use. (ALL)	Workers	Before Measure: High After Measure: Med
Falling materials	Injury from falling debris, Damage to equipment, Reduced site safety	Enables quicker progress in demolition as workers focus on tasks without extensive relocation of materials.	Set up exclusion zones to keep workers and bystanders away from drop zones. Use debris nets or scaffolding with protective barriers. Equip workers with certified hard hats and train them to store materials securely to minimize risk. (ALL)	Workers, Bystanders	Before Measure: High After Measure: Med
Falls from height	Severe injuries or fatalities, Delays due to safety breaches, Disruption to workflow	Enables work at elevated levels to complete critical tasks like high wall demolition or material salvage.	Install fixed guardrails and safety nets at edges. Require harness systems with certified anchor points for workers near edges. Train all personnel on safe ladder and scaffolding use. Perform regular inspections of all access equipment. (ALL)	Workers	Before Measure: High After Measure: Med
Fire hazards	Fires causing injury or damage, Disruption to demolition timeline, Environmental risks	Allows operations involving welding or cutting without disrupting overall workflows.	Remove flammable materials from work areas before starting demolition. Store fuels and chemicals in designated fireproof containers. Ensure fire extinguishers and trained fire marshals are readily available on-site. (ALL)	Workers, Nearby properties	Before Measure: High After Measure: Med

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Machinery entanglement	Severe injuries to workers, Equipment malfunctions, Delays in operations	Enables use of high-efficiency machinery for precise and rapid demolition.	Enforce strict lockout/tagout procedures for maintenance. Train operators on safe machinery use and ensure workers avoid loose clothing. Regularly inspect and maintain all moving parts to avoid unexpected malfunctions. (ALL)	Workers	Before Measure: High After Measure: Med
Overhead power lines	Electrocution, Equipment damage, Delays due to utility shutdowns	Allows critical work near utilities without halting the project.	Maintain a safe clearance distance as per regulations. De-energize or reroute lines when feasible. Use insulated tools and machinery, and assign spotters to oversee work near power lines. (ALL)	Workers, Operators	Before Measure: High After Measure: Med
Presence of live services (e.g., gas, water)	Gas leaks, Flooding, Service disruption to surrounding areas	Enables the continuation of essential nearby services while demolition occurs.	Coordinate with utility providers to disconnect or safely reroute services. Train workers to recognize live services, and clearly label them on all site maps. Keep emergency shut-off tools accessible. (ALL)	Workers, Nearby residents	Before Measure: High After Measure: Med
Proximity to adjacent structures	Damage to neighboring buildings, Disruption to surrounding areas, Delays due to repairs	Allows work in urban or sensitive environments while minimizing disruption.	Survey and document the condition of neighboring structures. Use vibration monitoring equipment during demolition. Establish buffer zones and notify stakeholders of potential impacts. (ALL)	Workers, Nearby residents	Before Measure: High After Measure: Med
Structural instability during demolition	Sudden collapse of structures, Injuries to workers, Damage to surrounding areas	Enables partial demolition while preserving essential structures, saving time and cost.	Plan and sequence demolition to control stress on remaining structures. Monitor stability continuously with sensors. Use temporary bracing or scaffolding to prevent unexpected movement. (ALL)	Workers, Nearby properties	Before Measure: High After Measure: Med

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Uncontrolled structural collapse	Unexpected collapse causing injury, Damage to surrounding areas, Disruption to demolition plan	Allows targeted demolition to progress efficiently, reducing unnecessary removal of safe structures.	Conduct thorough structural surveys. Design and implement a sequenced demolition plan approved by engineers. Install temporary supports or bracing for unstable structures. Use remote-controlled demolition equipment where feasible. (ALL)	Workers, Nearby residents	Before Measure: High After Measure: Med
Underground utility strikes	Disruption to utilities, Injuries to workers, Delays due to repairs	Allows efficient excavation with minimal risk to surrounding utility networks.	Perform ground-penetrating radar (GPR) surveys before excavation. Use color-coded marking systems to identify utilities. Train workers to stop work and report immediately upon striking a service line. (ALL)	Workers, Nearby residents	Before Measure: High After Measure: Med
Vehicular accidents on-site	Injuries to workers or operators, Equipment damage, Delays in site operations	Keeps machinery and logistics moving smoothly to maintain tight timelines.	Establish designated vehicle paths and parking zones. Use trained spotters to guide vehicles in tight areas. Equip vehicles with audible alarms and flashing lights. Separate pedestrian paths from vehicular routes. (ALL)	Workers, Operators	Before Measure: High After Measure: Med
Working in extreme cold	Hypothermia or frostbite, Reduced productivity, Delays in operations	Ensures progress in colder months, minimizing weather-related delays.	Provide thermal clothing and regular warm-up breaks. Use windbreaks to shield workers from cold conditions. Train staff to recognize cold-related injuries like frostbite or hypothermia and supply warming stations. (ALL)	Workers	Before Measure: High After Measure: Med
Working in extreme heat	Heat exhaustion or heatstroke, Reduced productivity, Worker fatigue	Maximizes productivity in summer or warm climates without prolonged downtime.	Schedule work during cooler parts of the day, provide shaded rest areas, and ensure hydration stations are accessible. Monitor workers for signs of heat-related illness and adjust schedules during heatwaves. (ALL)	Workers	Before Measure: High After Measure: Med

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Electrical hazards	Electrocution, Fires, Equipment damage	Maintains access to electrical systems required for critical monitoring tools and equipment.	Shut off and verify all electrical systems before work begins. Clearly mark or isolate live cables that cannot be disconnected. Use insulated tools and test equipment to ensure circuits are inactive before proceeding. (ALL)	Workers	Before Measure: High After Measure: Low
Fatigue and overexertion	Increased risk of errors or accidents, Worker injuries, Reduced productivity	Enhances productivity by ensuring workers stay focused and healthy.	Enforce regular breaks and rotate workers on physically demanding tasks. Provide proper nutrition and hydration support. Schedule shifts to avoid excessive hours and monitor for signs of worker fatigue. (ALL)	Workers	Before Measure: Med After Measure: Low
First aid	Delayed response to injuries, Worsening of conditions, Reduced worker confidence	Ensures immediate response to injuries, reducing recovery time and enabling swift resumption of work.	Assign trained first aid personnel on-site and provide fully stocked first aid kits in accessible locations. Conduct regular first aid drills to prepare for emergencies. Develop a clear communication plan to summon medical assistance quickly when needed. (ALL)	Workers, Operators	Before Measure: Med After Measure: Low
Inadequate personal protective equipment (PPE)	Injuries due to lack of protection, Reduced worker confidence, Delays in operations	Allows safe operation in hazardous conditions, maximizing worker confidence and minimizing interruptions due to injuries.	Conduct a PPE assessment for each task to identify required items, such as hard hats, gloves, eye protection, and respirators. Provide high-quality, correctly fitted PPE and ensure regular maintenance or replacement of damaged gear. Train workers on proper use and limitations of PPE. (ALL)	Workers	Before Measure: High After Measure: Low

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Manual handling injuries	Musculoskeletal disorders, Reduced worker efficiency, Delays in site clearance	Allows workers to engage directly with debris and equipment, enabling swift clearance of sites.	Train workers in proper lifting techniques and provide mechanical aids like forklifts or wheelbarrows. Designate team lifts for heavy loads and organize work areas to minimize the need for repeated handling. (ALL)	Workers	Before Measure: Med After Measure: Low
Noise exposure	Hearing damage, Reduced communication efficiency, Stress among workers	Allows the use of powerful tools and machinery critical to meeting tight deadlines.	Use noise-dampening equipment and position noisy machinery away from workstations. Provide workers with certified hearing protection. Monitor site noise levels and enforce quiet zones for breaks. Schedule work during hours with minimal public impact. (ALL)	Workers, Nearby residents	Before Measure: Med After Measure: Low
Noise-induced hearing loss	Hearing damage, Increased stress, Reduced communication	Allows heavy-duty machinery use required for efficient demolition.	Use noise-reducing barriers or acoustic panels to shield workers. Provide certified hearing protection and conduct mandatory breaks from noisy tasks. Opt for quieter equipment where possible and enforce regular hearing health checks. (ALL)	Workers	Before Measure: Med After Measure: Low
Poor visibility on-site	Injuries due to trips or collisions, Equipment damage, Delays due to halted operations	Allows work to continue during variable weather conditions, keeping timelines intact.	Install adequate lighting for night or low-light work. Use high-visibility clothing and reflective signage. Train workers to pause operations during extreme weather conditions like fog or heavy rain. (ALL)	Workers, Operators	Before Measure: Med After Measure: Low
Sharp objects or debris	Cuts or puncture injuries, Delays in site clearance, Equipment damage	Encourages thorough site clearance without deterring manual engagement.	Provide workers with puncture-resistant gloves, boots, and clothing. Remove debris promptly and safely store sharp tools. Inspect work areas for sharp hazards regularly and mark known danger zones. (ALL)	Workers	Before Measure: Med After Measure: Low

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Slips, trips, and falls	Minor to severe injuries, Reduced productivity, Disruption to site operations	Maintains mobility for workers and equipment, minimizing disruption.	Conduct daily site inspections to clear debris and identify hazards. Use anti-slip mats on uneven or wet surfaces. Clearly mark hazards and ensure proper footwear is worn by all personnel. (ALL)	Workers	Before Measure: Med After Measure: Low
Vibration exposure	Hand-arm vibration syndrome (HAVS), Damage to tools, Worker fatigue	Facilitates the use of high-performance equipment essential for precision demolition.	Opt for low-vibration tools where possible. Limit exposure time per worker using a rotation system. Use anti-vibration gloves and conduct regular hand-arm vibration syndrome (HAVS) assessments. Maintain tools to minimize unnecessary vibration. (ALL)	Workers	Before Measure: Med After Measure: Low
Unpredicted risks	Illness, injury, death		Continuous risk monitoring conducted by all staff. Any unforeseen hazards must be reported promptly to supervisors or management, with immediate corrective action taken as necessary. (ALL)	All	N/A

NOTES

Extra notes & activity evaluation:

Completed by

Reviewed/Approved by

Risk Assessment Date

Review Required Date