Insulation Installation And Maintenance

Risk Assessment

CREW DETAILS

IN AN EMERGENCY CALL:

Crew Leader:	**Project Phone Number:**
Crew:	

PROJECT OVERVIEW

Purpose of Project:	**Date of Project:**

Benefit of Project: Enhances thermal comfort for building occupants. | Extends the lifespan of building components by preventing damage. | Improves energy efficiency and reduces heating/cooling costs. | Increases building sustainability and environmental friendliness. | Reduces noise transmission between spaces. | Supports compliance with energy regulations and standards.

HAZARDS

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Confined space entry	Restricted movement, low oxygen levels, emergency access issues	Enables efficient insulation in areas such as crawl spaces or attics that are critical for energy savings.	Conduct risk assessments for confined spaces, ensure proper ventilation, monitor air quality, and provide training on confined space entry procedures. Use permits to control entry. **(ALL)**	Workers, supervisors	Before Measure: **High** After Measure: **Med**
Compressed air use	Injuries, noise-related issues, equipment failure	Facilitates the application of spray foam or other blown-in insulation, improving efficiency.	Ensure proper maintenance and calibration of air compressors, provide training on safe operation, and inspect hoses and connections for damage. Use PPE, including goggles and hearing protection, to protect against debris and noise. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Electric shock	Injury, fatalities, equipment damage	Ensures integration of insulation around electrical systems, maximizing building performance.	Before starting work, isolate electrical circuits in the area. Use insulated tools, and ensure all electrical installations comply with safety standards. Provide training on electrical hazards. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**
Exposure to asbestos	Inhalation of asbestos fibers, long-term health risks, regulatory non-compliance	Enables work in older buildings while ensuring compliance with regulations and maintaining health safety standards.	Conduct a thorough site survey to identify asbestos-containing materials (ACMs) before commencing work. If ACMs are present, engage licensed professionals for safe removal and ensure all personnel are trained in asbestos awareness. **(ALL)**	Workers, supervisors	Before Measure: **High** After Measure: **Low**
Exposure to damp conditions	Skin irritation, respiratory issues, mold growth	Enables installation in damp areas, addressing water damage and improving building performance.	Monitor the site for dampness or leaks, provide waterproof PPE, and ensure proper drainage systems are in place. Use moisture barriers during installation to prevent insulation from becoming wet. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**
Exposure to extreme temperatures	Heat exhaustion, hypothermia, reduced productivity	Allows work in diverse climates, essential for timely project completion and customer satisfaction.	Monitor weather conditions, provide appropriate clothing, schedule regular breaks, and ensure access to hydration. Implement acclimatization programs for extreme temperatures. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**
Exposure to hazardous chemicals	Chemical burns, respiratory issues, long-term health risks	Allows the use of high-performing chemical-based insulation products for improved results.	Identify all chemicals used, provide Safety Data Sheets (SDS), ensure proper labeling, and supply appropriate PPE. Train workers on safe handling and emergency procedures. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**
Exposure to lead-based materials	Lead poisoning, long-term health effects, environmental contamination	Allows necessary updates to historical buildings while preserving health and safety.	Test for lead in older buildings, use appropriate PPE, implement safe removal procedures, and provide training on lead hazards. Conduct regular health monitoring for exposed workers. **(ALL)**	Workers, supervisors	Before Measure: **High** After Measure: **Low**

Insulation Installation And Maintenance

Risk Assessment

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Exposure to mold and fungi	Allergic reactions, respiratory issues, contaminated work environment	Enables remediation of affected areas, ensuring long-term durability and air quality improvements.	Inspect areas for mold before work begins. If mold is present, use appropriate PPE, such as masks and gloves, and follow safe removal procedures. Ensure proper ventilation during work. **(ALL)**	Workers, supervisors	Before Measure: **High** After Measure: **Low**
Exposure to sharp objects	Lacerations, injuries, reduced productivity	Enables effective installation and shaping of rigid insulation panels.	Provide workers with cut-resistant gloves, ensure proper tool maintenance, and train on safe handling procedures for sharp objects and materials. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Exposure to silica dust	Respiratory issues, long-term lung damage, contamination of work area	Allows work with materials like fiberglass that are key to high-quality insulation.	Implement dust suppression methods, provide respirators, conduct air monitoring, and train workers on silica hazards. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**
Exposure to vermin or pests	Bites, contamination, disease transmission	Supports preparation of spaces for long-term insulation without contamination.	Inspect areas for signs of pests, use safe pest control methods, provide PPE, and train workers on recognizing and avoiding hazards. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Falls from height	Serious injuries, fatalities, reduced project timelines	Allows access to elevated areas for efficient installation in multi-level buildings.	Utilize scaffolding with guardrails, ensure ladders are in good condition and properly secured, and provide fall arrest systems where necessary. Conduct regular training on working at heights. **(ALL)**	Workers, contractors	Before Measure: **High** After Measure: **Low**
Fire hazards	Fire incidents, injury, property damage	Supports the use of advanced thermal insulation materials while maintaining fire safety standards.	Keep flammable materials away from heat sources, have fire extinguishers readily available, and train workers in fire response procedures. Conduct regular fire risk assessments. **(ALL)**	Workers, property owners	Before Measure: **High** After Measure: **Low**

Insulation Installation And Maintenance

Risk Assessment

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Hazardous waste disposal	Environmental contamination, regulatory non-compliance, health risks	Ensures compliance with environmental standards while allowing the use of high-performance insulation materials.	Identify hazardous waste, provide sealed containers for collection, follow regulatory guidelines for disposal, and engage licensed waste disposal services. Train workers on the correct procedures for handling and storing hazardous materials. **(ALL)**	Workers, supervisors	Before Measure: **High** After Measure: **Low**
Inhalation of insulation fibers	Respiratory irritation, long-term respiratory conditions, reduced air quality	Allows the use of effective insulation materials necessary for improving energy efficiency and thermal comfort.	Provide appropriate personal protective equipment (PPE), such as respirators, and implement dust control measures like wetting materials and using local exhaust ventilation to minimize airborne fibers. **(ALL)**	Workers, supervisors	Before Measure: **High** After Measure: **Low**
Manual handling injuries	Musculoskeletal injuries, reduced productivity, long-term health issues	Allows the use of larger or heavier materials needed for effective insulation solutions.	Provide training on proper lifting techniques, use mechanical aids like hoists or trolleys, and plan tasks to minimize manual handling. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Noise exposure	Hearing damage, reduced communication, long-term health issues	Facilitates the use of powerful tools required for effective insulation cutting and fitting.	Conduct noise assessments, provide hearing protection, implement engineering controls to reduce noise at the source, and schedule regular hearing tests for workers. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Overhead work	Falling objects, injuries, strain from reaching, reduced productivity	Allows insulation to be installed in ceilings or roof spaces for optimal thermal efficiency.	Use scaffolds with guardrails, provide fall protection systems, ensure tools are securely fastened, and train workers on overhead safety practices. Schedule regular inspections of scaffolding and equipment used for overhead tasks. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**

Insulation Installation And Maintenance

Risk Assessment

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Prolonged awkward postures	Musculoskeletal strain, fatigue, long-term health effects	Supports reaching challenging areas for thorough insulation coverage.	Schedule frequent breaks, provide ergonomic tools, and rotate tasks to reduce strain. Conduct ergonomic assessments of work processes. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Prolonged use of vibrating tools	Vibration-related injuries, fatigue, reduced productivity	Enables the use of specialized equipment necessary for cutting, fitting, or applying insulation.	Use low-vibration tools, provide anti-vibration gloves, schedule breaks to limit exposure, and rotate tasks to minimize continuous use. Inspect tools regularly for maintenance and proper functioning. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Proximity to moving vehicles or equipment	Crush injuries, collisions, reduced productivity	Facilitates the efficient transport of materials and equipment essential for the job.	Establish designated pathways for vehicles and pedestrians, use barriers and signage, provide high-visibility clothing, and ensure that vehicle operators receive proper training. Assign a trained spotter to oversee high-risk zones. **(ALL)**	Workers, vehicle operators	Before Measure: **High** After Measure: **Low**
Skin irritation from insulation materials	Skin irritation, allergic reactions, reduced productivity	Facilitates handling a wide range of insulation materials essential for effective installation.	Supply workers with protective clothing, including gloves and long-sleeved shirts, and ensure proper hygiene practices, such as washing exposed skin after handling materials. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Slips, trips, and falls	Injuries, reduced productivity, property damage	Enables efficient movement around the site, ensuring productivity during installation.	Keep work areas tidy, promptly clean up spills, use slip-resistant footwear, and ensure proper lighting. Conduct regular inspections to identify and rectify hazards. **(ALL)**	Workers, supervisors	Before Measure: **Med** After Measure: **Low**
Use of power tools	Injuries, equipment damage, noise-related issues	Enables precise cutting and fitting of insulation for optimal performance.	Ensure tools are regularly inspected and maintained, provide training on safe use, use appropriate PPE, and implement lockout/tagout procedures. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**

HAZARD	RISK	RISK BENEFIT	MEASURE	RISK TO	RISK LEVEL
Working in dimly lit conditions	Reduced visibility, increased risk of accidents, reduced efficiency	Enables work in enclosed or poorly lit areas crucial to comprehensive insulation coverage.	Provide portable lighting to ensure visibility, install temporary lighting where needed, and ensure all areas are properly illuminated during work hours. Train workers to identify and report poor lighting conditions. **(ALL)**	Workers	Before Measure: **Med** After Measure: **Low**
Working in poorly ventilated areas	Respiratory issues, reduced productivity, heat stress	Ensures insulation can be applied in all parts of the building, including sealed spaces.	Use portable ventilation systems, monitor air quality, schedule regular breaks, and rotate tasks to limit exposure. **(ALL)**	Workers	Before Measure: **High** After Measure: **Low**
Working near combustible materials	Fire incidents, injury, property damage	Supports the safe installation of materials in areas with existing structural features.	Maintain separation between combustible materials and ignition sources, use flame-retardant materials, and have fire extinguishers readily available. Train workers on fire response protocols and inspect the area for fire hazards regularly. **(ALL)**	Workers, supervisors	Before Measure: **High** 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:

NOTES

Extra notes & activity evaluation:

Completed by	Reviewed/Approved by	Risk Assessment Date	Review Required Date