



# Health and Safety Risk Analysis

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Site Address: HQ Document (will be filled for the sites)

Prepared by: HSE Consultant, Company Manager

Date: [Insert Date]

## 1. Introduction

This Health and Safety Risk Analysis has been prepared to ensure the safety of all personnel working on the construction site at MYM Construction Ltd. The purpose of this assessment is to identify hazards, assess the associated risks, and implement necessary control measures to ensure a safe working environment. This document will help in compliance with UK Health and Safety Executive (HSE) regulations and the Construction Design and Management (CDM) Regulations 2015.

## 2. Risk Assessment Methodology

The risk assessment process follows a structured approach to identify, assess, and mitigate potential hazards: 1) **Hazard Identification**: Identifying risks based on construction activities, materials, and site conditions. 2) **Risk Assessment**: Evaluating the likelihood and severity of each identified hazard using a risk matrix. 3) **Control Measures**: Defining strategies to eliminate or control each risk. 4) **Review and Monitoring**: Ensuring that control measures are effective and continuously reviewed to reflect changes.

## 3. Detailed Risk Analysis

The table below presents the identified hazards, associated risks, and the control measures to mitigate or eliminate those risks. Each hazard is evaluated using a risk matrix considering likelihood, severity, and risk level.



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Hazard	Description	Activity	Associated Risks	Likelihood	Severity	Risk Level	Control Measures
Work at Height	Unprotected edges, unsafe scaffolding creating risks of falls.	Scaffolding Erection	Falls from height, falling debris, fatal injuries	4 (High)	5 (Very High)	20	Install guardrails, barriers, and safety nets. Use fall arrest systems (harnesses, lanyards). Ensure scaffolding is erected and inspected by competent professionals.
Work at Height	Unprotected edges, unsafe scaffolding creating risks of falls.	Roof Work	Falls from height, falling debris, fatal injuries	4 (High)	5 (Very High)	20	Install guardrails and barriers. Use fall arrest systems (harnesses, lanyards). Ensure daily safety checks and regular inspections.
Work at Height	Unprotected edges, unsafe scaffolding creating risks of falls.	Working on Ladders	Falls, instability, injury from sudden movements	3 (Medium)	4 (High)	12	Inspect ladders regularly. Ensure workers are trained on safe ladder use. Use suitable, stable ladders.
Demolition Activities	Unplanned demolition work with no proper	Controlled Demolition	Structural collapse, falling debris,	5 (Very High)	5 (Very High)	25	Pre-demolition structural surveys. Implement controlled demolition techniques. Install protective barriers

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	structural support.		exposure to hazardous substances (asbestos)				and safety nets.
Demolition Activities	Unplanned demolition work with no proper structural support.	Hazardous Material Removal	Exposure to asbestos, dust inhalation, injury from falling debris	5 (Very High)	5 (Very High)	25	Provide PPE (Respirators, gloves, etc.). Ensure waste is securely removed and disposed of. Use dust suppression measures.
Excavation Hazards	Unshored or inadequately supported trenches and excavation edges.	Trenching and Excavation	Collapse of excavation, worker fall, debris falling into trenches	4 (High)	5 (Very High)	20	Install trench boxes or shoring systems. Place barriers to restrict access. Provide adequate signage and daily inspections.
Excavation Hazards	Unshored or inadequately supported trenches and excavation edges.	Excavation in Close Proximity to Structures	Risk of adjacent structure collapse, risk to workers within excavation	4 (High)	5 (Very High)	20	Conduct ground stability checks before excavation. Ensure shoring and protective barriers are in place. Monitor surrounding structures.

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Fire Risks	Risks from improper waste disposal, flammable materials on-site, and hot works.	Hot Works (Welding, Cutting)	Fire outbreaks, explosion, burns from exposure to open flames or sparks	3 (Medium)	5 (Very High)	15	Ban open burning on-site. Ensure fire extinguishers are readily available. Conduct fire drills and establish emergency evacuation plans.
Fire Risks	Risks from improper waste disposal, flammable materials on-site, and hot works.	Waste Disposal	Combustion from improperly disposed waste, exposure to toxic fumes	3 (Medium)	5 (Very High)	15	Implement safe waste disposal procedures. Ensure no combustible materials are left unattended. Install fire suppression systems.
Manual Handling	Lifting or carrying heavy materials, awkward objects.	Lifting and Carrying Heavy Materials	Back and shoulder strains, hand and wrist injuries, muscle sprains	4 (High)	4 (High)	16	Use mechanical lifting aids (e.g., forklifts, trolleys). Train workers on safe lifting techniques. Use ergonomic equipment where applicable.

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Manual Handling	Lifting or carrying heavy materials, awkward objects.	Handling Small but Repetitive Items	Repetitive strain injuries, muscle fatigue from repetitive lifting and carrying	3 (Medium)	4 (High)	12	Provide proper lifting equipment. Use job rotation to reduce repetitive strain. Ensure workers are trained on proper manual handling techniques.
Hazardous Substances	Exposure to dust and harmful substances such as silica, asbestos, etc.	Concrete Cutting and Breaking	Respiratory issues, lung diseases such as silicosis, eye irritation	5 (Very High)	4 (High)	20	Use dust suppression techniques (water sprays). Provide respiratory protective equipment (RPE). Conduct air quality monitoring.
Hazardous Substances	Exposure to dust and harmful substances such as silica, asbestos, etc.	Asbestos Removal	Exposure to asbestos fibers leading to lung diseases, cancer	5 (Very High)	5 (Very High)	25	Implement a controlled removal process. Provide PPE (respirators, protective suits). Conduct air sampling and monitoring.

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Temporary Works (Scaffolding)	Risks from poorly erected scaffolding and lack of structural support.	Scaffold Erection	Risk of collapse, injury from falling parts or material	4 (High)	5 (Very High)	20	Ensure scaffolding is designed and erected by certified professionals. Perform regular scaffold inspections. Install proper safety barriers.
Temporary Works (Propping)	Risks from unstable temporary structures used to support walls, ceilings, or other load-bearing elements.	Structural Propping	Risk of structural failure, injury to workers due to collapsing propping	4 (High)	5 (Very High)	20	Use certified structural designs for temporary works. Inspect and maintain propping systems regularly. Ensure stability checks are conducted before load application.
Traffic and Plant Movement	Risks from moving vehicles and machinery, especially in areas with pedestrian	Vehicle and Plant Movement	Collision with pedestrians or other workers, injury from machinery	3 (Medium)	4 (High)	12	Implement a site-specific traffic management plan. Designate pedestrian walkways. Restrict vehicle movement to designated zones.

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	traffic.		operation				
Welfare Facilities	Inadequate sanitation, washing, and rest facilities on-site, leading to worker discomfort and health risks.	Worker Rest Areas	Dehydration, poor hygiene, fatigue	3 (Medium)	3 (Medium)	9	Provide sufficient welfare facilities (toilets, washing stations). Ensure regular cleaning and maintenance. Provide clean drinking water.
PPE (Personal Protective Equipment)	Lack of appropriate personal protective equipment for workers, including helmets, boots, and gloves.	General Site Activities	Head injuries, foot injuries, eye damage, exposure to hazardous materials	5 (Very High)	4 (High)	20	Provide appropriate PPE (helmets, gloves, boots, goggles) for all workers. Ensure compliance through daily checks and regular inspections.



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## 4. Monitoring and Review

To ensure that the risk control measures remain effective, the following actions will be taken:

- Daily inspections by the Site Manager to identify new risks and monitor existing controls.
- Weekly safety audits to evaluate the overall safety performance of the site.
- Regular updates to this risk assessment whenever significant changes occur in site activities or conditions.
- Proper documentation and reporting of incidents or near-misses to identify areas for improvement.

## 5. Conclusion

This Health and Safety Risk Analysis provides a detailed framework to ensure the safety of workers and compliance with legal requirements. All stakeholders are encouraged to actively participate in maintaining a safe and productive working environment. This document will be reviewed periodically and updated as necessary.