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From Hazard Identification to Risk Mitigation: A Comprehensive Approach to Construction Safety

Larbi Dolie*

School of Resources and Safety Engineering, Central South University, China

Abstract

Construction sites are inherently hazardous environments due to the complex nature of the work, heavy machinery, and varied materials used. These conditions often lead to accidents, injuries, and fatalities. A proactive and comprehensive approach to construction safety is essential to minimize risks and protect workers. This article explores the critical phases of construction safety management, starting with hazard identification and moving through risk assessment and mitigation. The importance of establishing safety protocols, promoting a safety culture, and utilizing modern tools such as technology and safety management systems are also discussed. By focusing on a systematic approach to hazard identification, risk assessment, and risk mitigation, construction companies can create safer working environments, reduce accident rates, and improve overall project outcomes.

Methodology

Hazard identification

Risk assessment

Risk mitigation

Chemical hazards

***Corresponding author:** Larbi Dolie, School of Resources and Safety Engineering, Central South University, China, E-mail: dolie624@yahoo.com

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Worker involvement

Continuous Improvement

Conclusion

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