

Exploring safety management measures and factors in construction: A qualitative study

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ABSTRACT

This study employed a qualitative research method to explore the safety management measures and influencing factors at construction sites through in-depth interviews with practitioners at various levels of the construction industry. The study found that safety management measures mainly include three levels: technical engineering measures, management control measures, and personal protection measures. Their actual effects are jointly influenced by factors at the organizational, group, and individual levels. Safety investment, leadership commitment, and subcontract management model at the organizational level, safety culture and manager leadership at the group level, and safety knowledge and risk perception ability at the individual level all have a significant impact on the effectiveness of safety management. The study specifically highlighted that group factors play a key mediating role in safety management, conveying organizational policies and guiding individual behavior. Based on this, the study recommends building a multi-level, integrated safety protection system and implementing differentiated safety management strategies to improve the effectiveness of construction safety management.

Keywords: Building safety; Safety management measures; Group dynamics; Qualitative research