

**CENTRE OF STUDIES FOR QUANTITY SURVEYING**  
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**ACCIDENT IN THE CONSTRUCTION INDUSTRY: FALL  
FROM HEIGHT**

Dissertation submitted in partial fulfilment  
of the requirement for the award of  
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## **ABSTRACT**

Compared to other sectors, the construction industry is a high-risk industry that is prone to causing accidents that often result in deaths and injuries. Falls from Height (FFH) is amongst the most dangerous incidents that may happen on a high-rise construction site. When safety is disregarded on the construction site, it has far-reaching consequences for the project's time, cost, and quality. Therefore, the purpose of this study is to investigate the causes and preventive methods of construction fall accidents in Kota Kinabalu construction sites, as there are many high-rise building projects in this state. This study is carried out by doing a literature review, and data were collected through the online distribution of structured questionnaires to Contractors in the Kota Kinabalu area. The questionnaires were completed using Google Form and distributed through Whatsapp application and email to construction companies. Further, this study employed SPSS software to evaluate the data to determine the causes and mitigation strategies of construction site fall incidents. The type of data analysis used was the frequency and descriptive analysis. From the findings, without proper safety equipment such as scaffolding, guardrails installation, and PPE for the workers, may cause accidents to occur, leading to severe injuries or death to the workers. Aside from that, the result from the survey for mitigation measures are effective maintenance is crucial, and the management should play their role and regularly inspect all equipment used to work at height, such as scaffolds, platforms, and ladders, as well as observing their workers working a high elevation to avoid any casualties.

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# CHAPTER 1

## INTRODUCTION

### 1.1 BACKGROUND

The construction industry is the most crucial sector of the country, and it has also been identified as one of the most dangerous industries to be employed. High-rise projects' requirement increases as the usable land area are developed; thus, reducing land for projects while still having a high demand for residential and commercial land projects in Malaysia. The development of high-rise projects is increasing rapidly based on current information and trends, resulting in a rise in industrial accidents on construction sites (Kai et al., 2016).

In addition to that, there was a significant rise in the number of industrial accidents causing death and permanent disablement cases in the construction industry. With that being said, high risks of accidents that workers are exposed to on-site, and the most frequent accidents in the Malaysian construction industry often involve people falling from a height, being hit by falling objects, and lifting equipment (Mohd Yusuf, 2018).

The accident prevention methods employed have an appropriate quantity and the use of Personal Protective Equipment (PPE), the implementation of safety inspection and accidents investigation, and all staff are provided with detailed safety training (Kai et al., 2016). Therefore, this research will focus on health and safety issues and further identify the causes and prevent accidents on high-rise building construction sites during all phases of the construction process. This will be done by determining how accidents occur and exactly how those incidents are being coped with so that workers and top management can gain greater awareness in preventing site accidents.