



**DEPARTMENT OF BUILDING SURVEYING  
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING  
UNIVERSITI TEKNOLOGI MARA**

**A STUDY ON SAFETY DURING BUILDING DEMOLITION WORK**

**This academic project is submitted in partial fulfillment of the  
requirement for the Bachelor Of Building Surveying (Hons.)**

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**"I hereby declare that this academic project is the result of my own research  
except for the quotation and summary which have been acknowledged"**

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## **ABSTRACT**

Nowadays, to achieving a develop status, shortage of land and space will requires existing structures to be demolished in order to make way for new development. The demolition work are create dangerous to all person involved in demolition works and safety measures should be considered. This research was conducted to study on safety precautions during building demolition work. The research was commenced by introduction to all theory which is related to demolition work such as definition of demolition, demolition method and etc. To more understanding about the types of safety precautions to taken during demolition work, the survey has been conducted of questionnaire has been distributed to the contractor and worker. The distributed questionnaire has been answered by various of the company management such as Project Manager, Health and Safety Officer, Supervisor, Site Engineer and Site Coordinator which to gather the various view on types of safety precautions during building demolition work. The interview session was carried out between Local Authority to find out the enforcement and roles of Local Authority during building demolition work. The questionnaire also distributed to public to find out their opinion about enforcement and roles of Local Authority. The all data collected from the survey has been analyzed and the finding was to achieve the objective in the dissertation. After the finding have recognized, some recommendation and suggestion for future research will make to improve the safety measures and reduce the risk in building demolition work.

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**CHAPTER 1**

**INTRODUCTION**

**1.1 Introduction**

In the demolition industry there have been considerable developments in special machinery and demolition technique in order to meet requirement for cost and effectiveness and competition. Demolition is one of the process which opposite the construction process and can be describe as destructions of buildings and other structure. Normally this process involved tearing-down the whole or certain structure of the building while carefully preserving valuable elements for re-use.

Beside that, the demolition work also involves many of the hazards associated with construction. However, demolition incurs additional hazards due to unknown factors such as deviations from the structure's design introduced during construction, approved or unapproved modifications that altered the original design, materials hidden within structural members, and unknown strengths or weaknesses of construction materials. To counter these unknowns, all personnel