



**UNIVERSITI TEKNOLOGI MARA**

**A STUDY ON AWARENESS LEVEL  
OF WORKERS IN USING  
PERSONAL PROTECTIVE  
EQUIPMENT (PPE) AT  
CONSTRUCTION SITE**

**DANIEL ISKANDAR HAKIMIE BIN  
MOHAMAD ROSHIDI**

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**Department of Built Environment Studies &  
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## ABSTRACT

Construction industry is always known as an economic engine in every nation where it really plays a major and vital role in generating income and directly increase the job opportunities to the citizens. Despite being the contributors to the economic growth in Malaysia, construction industry also known as the most dangerous and hazardous workplace towards the workers where it will harm and cause injuries to them which also can lead to death if the dangers and risks are not managed well. There are many accidents that occur at the construction site due to the negligence of the workers in not implementing the Personal Protective Equipment (PPE) at the construction site. PPE is the equipment to protect the construction worker from any injuries, accidents, and fatalities. Implementation of PPE is very important for any person either the worker or visitor once they enter the construction site. PPE also should be choose wisely depending on the requirement of the work, and depending on the work environment which require PPE to function as desired, clean and ready when needed. Therefore, the aim of this research is to identify the current safety practice in using PPE at construction site in Malaysia. The objectives of this research are to evaluate the awareness level of workers regarding the PPE practice at construction site, and to identify the challenges to practice the PPE practice at construction site. The method use for collecting data is by carry out online questionnaire survey form and distributed to the person who involve in construction industry. The questionnaire had been respond by 64 number of respondents. The data obtained from the survey is evaluated to achieve the objectives of the research.

**Keywords:** Accidents, Construction, Personal Protective Equipment, Safety Practice.

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# **CHAPTER ONE**

## **INTRODUCTION**

### **1.1 RESEARCH BACKGROUND**

Construction is the process of build and construct. It starts with planning and designing desired then build and construct of the building or infrastructure. Construction industry have its own role in order to improve the living standards of the Malaysian citizen by providing basic amenities such as residential space, commercial space, stadium, communication utilities, healthcare units, highways, bridges, roads, parks, public transport buildings, playgrounds and other infrastructures (Ali Khan, Liew, & Ghazali, 2013).

Construction industry known as a larger contributor to the economy growth in the country. This is because, the demand in construction industry is increasing from time to time especially the demand of new building and infrastructure. The value of gross output recorded in 2015 is RM177.9 billion while in 2017 the value of gross output recorded is RM204.4 billion (Department of Statistic Malaysia, 2018). This shows the increasing value of gross output as much 7.2% per annum. Therefore, the total value of gross output from 2015 to 2017 recorded the increasing of 14.4% for two years. The increasing of demand in construction industry is due to the demand for residential and commercial building. This situation will make more person involved in construction industry.

Department of Occupational Safety And Health Malaysia (DOSH) and National Institute of Occupational Safety And Health Malaysia (NIOSH) are responsible to monitor the safety and health of workers in construction industry especially regarding the compliances to the regulation for safety including the implementation of PPE at the workplace. For more specific, DOSH provides safe and health work environment for its all employees and protect others who may be affected by its activities. While NIOSH is the federal agency that responsible for conducting research and making recommendation for prevention of work that related to safety and health.