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**CONTRACTORS' PERCEPTION TOWARDS  
BEHAVIOUR-BASED SAFETY (BBS) SYSTEM  
IN CONSTRUCTION INDUSTRY**

Final Project submitted in partial fulfillment  
of the requirement for the  
award of Bachelor of Quantity Surveying (Honours)

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## **AUTHOR'S DECLARATION**

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Undergraduates, Universiti Teknologi MARA, regulating the conduct of my study and research.

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## **ABSTRACT**

Construction accidents among general workers are one of the critical sectors that the current safety practices should be upgraded. Mostly, accidents are caused by unsafe behaviours, poor environment of the workplace or both. While there has been dramatic enhancement in making more secure construction environment, the construction accident still tend to occur due to the construction workers' unsafe act. The aim of this research is to study the contractor's perception on behaviour-based safety (BBS) system in construction industry. There are three main objectives for this study which are to explore issue on site management and identify the term of behaviour-based safety (BBS) system, to identify the level of awareness towards the implementation of behaviour-based safety (BBS) system and to study the contractor's perception towards behaviour-based safety (BBS) system in construction industry. The scope of research is focusing on the G7 main contractor in Kuching, Sarawak. The data collection method used is quantitative data which distribution of questionnaires to collect the data needed. Based on the findings, it can be concluded that level of awareness among main contractors in Kuching are still low, but most of the respondents have positive perceptions towards Behaviour-Based Safety (BBS) system.

**Keyword: Behaviour-based safety (BBS), construction industry, construction accidents, safety management**

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 BACKGROUND OF STUDY**

The construction industry safety's record has dependably been poor. It stays a standout as the most risky ventures in which to work. Construction laborers have the most astounding casualty rate, contrasted with specialists of different parts. One of the conceivable explanations behind perilous construction work is that a building site is crowded with laborers. Sunindijo and Zou (2011) reported that although the industry provides employment for only about 7 percent of the world's population, it contributes for between 30 and 40 percent of the occupational injuries. These negative effects require the need to look at the viability of safety practice, which go for defending specialists from work-related hazards through the foundation of positive work conduct by the utilization of a fitting management system (Krause, 1993; Vinodkumar & Bhasi, 2010). Therefore, the characteristics of construction industry should be considered before adopted any type of safety initiative as there is a special challenge for safety enhancement in construction industry.

Many authors or researchers had proven that it is effective to enhance safety performance in different industrial backgrounds and used by many other countries. As many scientific studies have concluded that unsafe behavior is a major cause of accidents (Cheng & Wu, 2013 and Li et al, 2015), the BBS approach is drawing more and more attention in the area of occupational safety. Conventionally, the strategy of BBS intervention is adding antecedent and/or consequence to the situation to alter response probability (DePasquale & Geller, 1999), such as Goal Setting and Feedback (Duff et al, 2007).