

A STUDY ON THE LEVEL OF SAFETY AWARENESS AMONGST JPP CONSTRUCTION TEAM IN CONSTRUCTION PROJECTS ON THE UNIVERSITY CAMPUS

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Abstract: Safety awareness is seeing and understanding what is currently happening around you, while also thinking ahead to anticipate and prevent problems. Safety awareness includes not only a recognition of potential hazards, but also an awareness of what is happening in your immediate work area and an understanding of how your actions and the actions of those around you may impact your safety, both now and in the near future. This paper aims to investigate the level of safety awareness amongst JPP construction team in construction project on the university campus. By using a quantitative research method with the 6-Likert scale from various disciplines and the data is collected through questionnaire. The total number of participants of this research will be involving 44 staffs from Development and Maintenance Department in Universiti Utara Malaysia (JPPUUM) and data is analysed using IBM SPSS Statistics 25. All variables have been accepted according to the Pearson Correlation Analysis at 95% significant level that have done. It is to get more accurate the level of awareness amongst JPP construction team in construction projects on the university campus.

Keywords: Safety awareness, JPP construction team, behaviour-based safety, safety knowledge

1. INTRODUCTION

According to the Department of Occupational Safety and Health (DOSH, 2013), it has been reported there is an increasing number of accidents on the construction site. The work-related injuries and deaths continue to occur at a high rate. Hence, this paper focused on the study of the level of safety awareness amongst JPP construction team in construction project on the university campus. This study was conducted because of to ensure awareness among employee about the essential of occupational safety and health at workplace. In this modern era, the knowledge and information of safety awareness in construction project should be implemented in a variety of fields and it usually related to construction fields.

2. METHODOLOGY

The research approach in this study is quantitative research method. The total number of participants of this study will be involving 72 staffs from Development and Maintenance Department in Universiti Utara Malaysia (JPPUUM) which is from *Unit Kejuruteraan Awam, Unit Kejuruteraan Elektrik, Unit Kejuruteraan Mekanikal, and Unit Kejuruteraan Elektronik*. The questionnaire consists of three part, the first part is the survey of demographic staffs which including gender, race, status and education level. The second part is the survey of dependent variable which is safety awareness. The third part is the survey of independent variable which are behavior-based safety (BSS), and knowledge on safety. The total of all item is 9. The questionnaire is also evaluated by staffs by using 6-point Likert scale which are strongly disagree (1) to strongly agree (6). The use of Likert-scale is to measure each question

by giving a point based on staff's opinion and agreement of the statement. After that, the collected data was analyzed using IBM SPSS Statistics 25.

3. RESULTS AND DISCUSSION

The result show that male respondents were 81.8% while 18.2% were female respondents. As for the ethnicity, there are 95.5% for Malay respondents, 2.3% were Indian and 2.3% for the other respondents. Lastly, level of education most respondents are from *Diploma* with 47.7% while following with *MCM/SPM* with 13.6% and *Sijil Kemahiran, HSC/STP/STPM*, and *Ijazah* with 11.4% of respondents in this study respectively.

Table 1
Cronbach's alpha scores for variables

Variables	Items	Cronbach's Alpha
Safety Awareness (DV)	3	0.675
Behavior-Based Safety (BBS) (IV1)	3	0.937
Knowledge on Safety (IV2)	3	0.769

According to the result, Table 1 above, overall of the Cronbach's Alpha value for each variable is more than 0.7. Therefore, each variable can be acceptable and had good internal consistency.

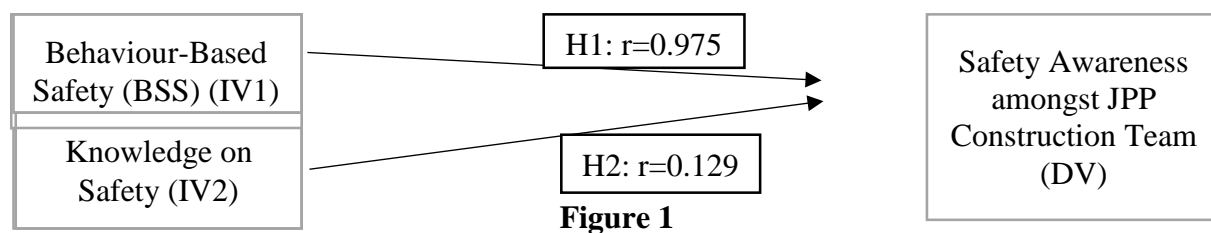


Figure 1
Research framework of level of safety awareness to behaviour-based safety (BSS) & knowledge on safety

Based on the Figure 1 above, all the hypothesis is accepted which is value for H1 is 0.975, and H2 is 0.129.

4. CONCLUSION

The aim for this study is to investigate the level of safety awareness amongst JPP construction team in construction projects on the university campus. A total of 44 JPP staff participated in this study and the result shows that most of staff are moderate safety awareness in construction project. As a conclusion, the value of correlation of behavior-based safety (BBS) (IV1) which is $r=0.975$ is stronger than knowledge on safety (IV2) which is $r=0.129$. Future researchers need to get the large respondents to get the accurate results.

5. REFERENCE

DOSH (2013), Safety awareness among construction companies low. Retrieved from <http://www.dosh.gov.my/index.php/en/archive-news/2013/791-safety-awareness-among-construction-companies-low>