

THE RELATIONSHIP BETWEEN SAFETY CULTURE AND PROJECT PERFORMANCE IN CONSTRUCTION INDUSTRY AT PAHANG

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ABSTRACT

This study is about the relationship between safety culture and project performance is assessed in construction industry in Pahang. This study come out based on the problem statement which is one of the industry that contributed to accident which gives impact to the workers such as deaths or permanent disability. The scope of this study is from general workers until project team whose work at construction industry in Pahang especially in Kuantan and a few district. For the data collection, the data were obtained from the questionnaire survey and by google doc which send by e-mail. Total sample of 36 respondents out of 40 construction companies were used in this study. For the result of this study has been identified that there are weak relationship between safety culture and project performance.

INTRODUCTION

- i. What is the element of safety culture?
- ii. What is the relationship between safety culture and project performance?

OBJECTIVE/S

- i. To identify safety culture element.
- ii. To determine the relationship between safety culture and project performance.

METHODS

The data were analyzed by using:

- i. Descriptive analysis
- ii. Mean score
- iii. Reliability analysis
- iv. Correlation analysis
- v. Response Rate

RESULTS

Pearson’s Correlation			Total Mean for Each Element			
		Project Performance		Mean	Rank	N
Safe Work Behaviour	Pearson Correlation	-.150	Total Mean of Safe Work Behaviour	4.1019	5	36
	Sig. (2-tailed)	.383				
	N	36				
Management Commitment	Pearson Correlation	.006	Total Mean of Management Commitment	4.4097	1	36
	Sig. (2-tailed)	.972				
	N	36				
Supportive Environment	Pearson Correlation	-.180	Total Mean of Supportive Environment	4.2130	2	36
	Sig. (2-tailed)	.294				
	N	36				
Safety Rule & Procedure	Pearson Correlation	.231	Total Mean of Safety Rule & Procedure	4.1481	3	36
	Sig. (2-tailed)	.175				
	N	36				
Worker’s Involvement	Pearson Correlation	.092	Total Mean of Worker’s Involvement	4.1019	4	36
	Sig. (2-tailed)	.593				
	N	36				

Coefficient Value (r)	Description
$ r = 1$ or -1	Perfect linear relationship
$+0.7 \leq r \leq -0.7$	Strong linear relationship
$+0.5 \leq r \leq -0.5$	Moderate linear relationship
$+0.3 \leq r \leq -0.3$	Weak linear relationship

Mean Score	Level
1.00 – 2.33	Poor
2.34 – 3.66	Moderate
3.67 – 5.00	Good

Cronbach’s alpha Formula

$$\alpha = \frac{K \cdot \bar{r}}{1 + (K - 1) \cdot \bar{r}}$$

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
0.626	0.532	20

Reliability Test

Online Survey

(18/30) x 100 = 60%

Paper-based Survey

(18/60) x 100 = 30%

Total Percentage

(36/90) x 100 = 40%

Response rate

CONCLUSIONS AND RECOMMENDATION

The result shows a weak relationship between safety culture and project performance. The highest correlation obtained is through safety rules & procedure element which is, r = 0.231. The questionnaires need to be construct with the aim to get constant respond from participant to prevent them from getting confused