

**PROGRAM OF QUANTITY SURVEYING
DEPARTMENT OF BUILT ENVIRONMENT STUDIES
AND TECHNOLOGY
FACULTY OF ARCHITECTURE, PLANNING AND
SURVEYING
UNIVERSITI TEKNOLOGI MARA PERAK BRANCH**

**FACTORS AFFECTING THE LABOR
PRODUCTIVITY IN CIVIL ENGINEERING
PROJECT IN MALAYSIA**

Dissertation submitted in partial fulfilment
of the requirement for the award of
Bachelor of Quantity Surveying (Honours)

**PREPARED BY : MUHAMMAD FAZMI BIN MOHD TOHA
(2018424086)
SEMESTER : MAC 2021 - AUGUST 2021**

ABSTRACT

Civil engineering projects are considered one of the most crucial in every developed and developing country in the perspective of economic and social development. Thus, it is also part of important to achieve successful to completion of the project because it will contributor to the national economy growth. Efficient and effectiveness is one of the significant criteria in ensuring the success in civil engineering projects in term of productivity. Hence, that why labor productivity is considered as an important aspect need to be highlight. Several factors can be classified as an influence to labor productivity, which must be studied in order to improve labor productivity in civil engineering project. In Malaysia, although many research has been identifying that labor productivity is very significant in the construction sector, but there are currently less studies that clearly identify the main factors that affecting labor productivity in civil engineering project. Therefore, the purpose of this research is to determine the main factors that have affected labor productivity and identify level of labor productivity in Malaysian civil engineering projects. Questionnaires were used in this research to collect information and data. Questionnaires were separated into three section which is section A, section B and section C with total of 30 question. A total of 367 forms were distributed via google form, and only 127 completed data forms had been returned. The analysis of the study was conducted quantitatively with the use of Statistical Packages for Social Science (SPSS) program. The results showed that mean value in level of labor productivity in Malaysia in aspect performance, quality of work, punctuality and knowledge is moderate. Also, in second objective where the majority respondent is strongly agreeing with Individual factors, communication factors, and external factors is the most factors affecting labor productivity in civil engineering project. Therefore, the factors discussed are expected to help in the successful completion of civil engineering projects in the future.

ACKNOWLEDGEMENTS

Alhamdulillah, I am grateful that I have successfully completed this study. This is the highest achievement that I have accomplished, therefore millions of thanks to all parties directly or indirectly involved in providing cooperation throughout the time this study was conducted.

I would like to send my most gratitude to my supervisor who has given a lot of guidance, mentoring and assistance in completing this study. The period given for meetings, discussions and draft revisions from her is very much appreciated in completing this study.

I would also like to thank all of the other parties involved, particularly to the civil engineering contractors who willingly answered a few questions from the surveys in order to complete this research.

Thousands of thanks to my friends and classmates for assisting me in these difficult times sharing knowledge and providing advice to ensure that this study is completed.

Finally, I'm sending my most heartfelt gratitude to all my family members who provide support to me in my efforts to complete this study. Only Allah S. W. T. can repay your kindness and deeds that everyone has done for me.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	DECLARATION	ii
	ACKNOWLEDGEMENT	iii
	ABSTRACT	iv
	TABLE OF CONTENT	v
	LIST OF TABLES	ix
	LIST OF FIGURES	x
	LIST OF ABBREVIATIONS	xi
	LIST OF APPENDIXES	xii
 CHAPTER 1: INTRODUCTION		
1.1	INTRODUCTION	1
1.2	PROBLEM STATEMENT	3
1.3	RESEARCH AIM	5
1.4	RESEARCH OBJECTIVES	5
1.5	RESEARCH QUESTIONS	6
1.6	SCOPE OF STUDY	6
1.7	METHODOLOGY	7
1.8	ORGANIZATION CHAPTER	10
 CHAPTER 2: LITERATURE REVIEW		
2.1	INTRODUCTION	12
2.2	LABOR PRODUCTIVITY	13
2.2.1	DEFINITION PRODUCTIVITY	13
2.2.2	DEFINITION OF LABOR PRODUCTIVITY	15
2.2.3	INTRODUCTION TO CIVIL ENGINEERING PROJECTS	16

CHAPTER 1

INTRODUCTION

1.1 Introduction

Construction sector has a major role in the development of a country. Recently, construction sector have develop and growth quite a lot in Malaysia. This development was influence by many factors towards it successfulness and one of it was influence by labor productivity. Productivity is key to the survival and growth of any organization, industry or nation (Mahamid et.al, 2013). Abide this country fast development and growth, in statistic, Malaysia was rank eighth (8) place from 13 other countries selected and Malaysia was behind south Korea, Singapore, Taiwan, Thailand and Japan (Hafizahril, 2018).

Construction industry plays an important role in the economy for any country. One of the main factors influencing the construction industry was the productivity of the labor and it is mainly also followed by associated with the labor performance (Hafez et al., 2014). Recently, construction labor productivity has become big problem in construction industry in Malaysia. In most countries, labor cost comprises 30% to 50% (percent) of the overall project's cost (Yates et al., 2002) and thus this will effect the economic growth where it will deficit for income and for economic success.

Acknowledgement about the productivity is one of the keys for the economic successful for every country especially in construction industry. Construction is one of the most important aspect in improving the quality of life for people and community. According to the Attar et al. (2012), key sector is productivity to achieve the big portion to the world