

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA

MAINTENANE MANAGEMENT (A WAY OF INVESTMENT)

This academic project is submitted in partial fulfillment of the requirement for the Bachelor Of Building Surveying (Hons.)

HASBANI ZANARIAH BINTI ABU BAKAR (2006132783)

OCTOBER 2009

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA

MAINTENANCE MANAGEMENT (A WAY OF INVESTMENT)

"I hereby declare that this academic project is the result of my own research except for the quotation and summary which have been acknowledged"

STUDENT'S NAME	:	HASBANI ZANARIAH BINTI ABU BAKAR	
SIGNATURE	:	•	
UITM NO	:	2006132783	
DATE	:	9 DISEMBER 2009	

ABSTRACT

Investment in building maintenance is huge all over the world. In most countries, it represents almost 50 per cent of the total turnover to every industry. The value of buildings depends on the quality of the maintenance invested in them. Maintenance management involves obtaining maximum benefit from the investment made on the maintenance activities. Maintenance in buildings in Malaysia is on the increase regardless of size, type, location, and ownership. The current maintenance management procedures in Malaysia are, however, condition and reactive based. The weaknesses in the current procedures are the primary problems because they do not explicitly link maintenance needs with building performance with respect to the building users. The building users measure the performance of a building with various criteria. The condition of a building is just one of those criteria. This research establishes the need for a building maintenance management system that is based on the concept of value in the effort to lead towards the optimisation of building maintenance programmes. Maintenance management that is value based allows users to be proactively put at the centre of maintenance management during decision-making processes and takes into consideration both the objective and subjective requirements of users.

TABLE OF CONTENTS

CHAPTER	TITLI	E	PAGE
	T 11		
		of Contents	ii
	List of	Tables	V
	List of	Figures	vi
	List of	Chart	vii
CHAPTER 1	INTR	ODUCTION	
	1.0	INTRODUCTION	1
	1.1	ISSUE	4
	1.2	OBJECTIVE STUDIES	7
	1.3	SCOPE OF STUDIES	8
	1.4	LIMITATION	9
	1.5	METHODOLOGY	9
	1.6	SUMMARY OF CHAPTER	13
CHAPTER 2	LITE		
	2.0	INTRODUCTION	15
	2.1	MAINTENANCE MANAGEMENT	18

2.2 DEFINITION OF PREVENTIVE MAINTENANCE 20
2.3 MAINTENANCE CONCEPTS 25
2.4 EFFECTIVE PREVENTIVE MAINTENANCE 28
2.5 PREVENTIVE PLANNING AND SCHEDULES 33

ii

	2.6	BUDO	JETING AND COST CONTROL	44	
	2.7	MAIN	TENANCE INVESTMENT	48	
	2.8	INVE	STMENT METHOD	53	
	2.9	EXAN	MPLE OF HOTEL INVESTMENT	58	
CULA DEED 2			N7		
CHAPTER 3		CASE STUDY			
	3.0		ODUCTION	62	
	3.1	CASE STUDY 1:			
		RESII	DENCE INTERNATIONAL		
		HOTE	ELS AND RESORT, BANGI	64	
	3.2	CASE	E STUDY 2:		
		ORIE	70		
	3.3	CASE	STUDY 3:		
		PRES	COTT METRO INN KAJANG	77	
CHAPTER 4	FINI	DINGS A	AND ANALYSIS		
	4.1	INTRODUCTION			
	4.2				
		4.2.1	INTRODUCTION	96	
		4.2.2	SECTION 1:		
			BACKGROUND OF		
			RESPONDENT	97	
		4.2.3	SECTION 2:		
			IDENTICICATION OF THE		
			COMMON PRACTICE IN		
			BUILDING MAINTENANCE		
			SYSTEM	100	
			ч.		

iii