



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

A STUDY ON SAFETY MANAGEMENT IN HERITAGE BUILDINGS
CONSERVATIONS WORKS

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

ISMAHANI ABDUL HAMID
(2006121779)

OKTOBER 2009

ABSTRACT

This study is aimed to investigate the safety management during the conservation works. The conservation works is inherently dangerous and injuries are more likely to occur. It is appropriate to consider the conservation works is inherently dangerous if no proactive steps are taken to improve the work conditions and to ensure that the work is undertaken in a safe manner. In this study, the safety element during the conservations works will explain more on principles of safety management. A safety management system means there is a proper managing structure in place, managed by people and backed by activities, documents, procedures, etc.

However, to ensure its development, the most important component is the organization or body of people assigned to manage the system. Although the risk at the conservation site is not critical as the new project, but the organization should be aware of the site safety. The study is mainly focus on the following, to identify the health and safety level of site and office management in the planning and control of safety process during the conservations works, to investigate the problems and issues in managing the conservations works of heritage project and to recommend the best practice in safety and health for conservations works.

ACKNOWLEDGEMENT

Alhamdulillah. Firstly, I would like to thanks to Allah SWT for all kindness, blessings, happiness and prosperous lives. Then I would like to express highly appreciation to my supervisor, Prof. Madya Dr, Sr, Hj. Ahmad Ezanee Hashim who gives me support and guidance during my study. I want to dedicate my love for my family for their sacrifices. Your endurance and supportive spirit keep me going. I give my thankful to the people whom entertain me regarding to fire safety in the selected company. Luckily to learn much aspect in term of fire safety during my research process conducted.

Lastly, I want to express my sincere thank to the entire person whom involved in this research either directly or indirectly. Your love will always be an encouragement for me to do my best.

TABLE OF CONTENT

CHAPTER	DESCRIPTION	PAGE
	ABSTRACT	i
	ACKNOWLEDGEMENT	ii
	TABLE OF CONTENTS	iii
	LIST OF FIGURE	x
	LIST OF TABLE	xii
 CHAPTER 1 – INTRODUCTION		
1.1	INTRODUCTION	1
1.2	BACKGROUND OF STUDY	2
1.3	PROBLEMS STATEMENT	4
1.4	SCOPE AND LIMITATION OF STUDY	5
1.5	THE OBJECTIVES OF THE RESEARCH	5
1.6	RESEARCH METHODOLOGY	6
	1.6.1 Primary Data	6
	1.6.2 Secondary Data	7

CHAPTER 2 - CONSERVATION PRACTICE IN MALAYSIA

2.1	CONSERVATION	8
2.1.1	Preservation	10
2.1.2	Restoration	11
2.1.3	Adaptation	12
2.1.4	Rehabilitation	13
2.1.5	Maintenance	13
2.2	IMPORTANCE OF CONSERVATIONS	14
2.3	PRINCIPLES OF BUILDING CONSERVATION	17
2.4	HERITAGE CONSERVATION LEGISLATION IN MALAYSIA	19

CHAPTER 3 - SAFETY MANAGERMENTS

3.1	INTRODUCTION	23
3.2	DEFINITIONS	25
3.3	PRIMARY CAUSE OF ACCIDENTS	27
3.4	SECONDARY CAUSE OF ACCIDENT	29
3.5	ACCIDENT INVESTIGATION	30
3.6	INVESTIGATION TECHNIQUES	31
3.7	SAFETY MANAGEMENT AND PLANNING	33
3.7.1	Safety Culture and Climate	34