



# **RESEARCH ON SAFETY IN HEAVY INDUSTRY**

**SHAHIDA BT. ABU HASHIM**

**(2000609891)**

**NORLINA BT. MOHD JOHAN**

**(2000490989)**

**IZDIHAR BT. THARAZI**

**(2000491100)**

**DIPLOMA IN MECHANICAL ENGINEERING**

**(MANUFACTURING)**

**UNIVERSITI TEKNOLOGI MARA (UiTM)**

**MAY 2003**

## ACKNOWLEDGEMENT

In the name of Allah, the gracious and merciful, syukur Alhamdulillah, thank to Allah that gave us strength and the opportunity to complete this final project, KJP 365 (Research on Awareness of Safety and Health in Heavy and Service Industries) on the given time.

Firstly, we would like to express our deep sense of gratitude appreciation and million thanks to our parents and families for their encouragement, support and inspiration. And not forgotten for showing us that all things are possible.

Secondly, very special and billion thanks to our supervisor, Pn. Dzullijah bt. Ibrahim for her consistent advice, sharing in valuable time, encouragement and patient during the period of time completing this project. And we never forget everything, especially her cooperation for us and we really appreciate it.

We also like to say thank you to Pn. Iza Hasni (Executive Officer of SOCSO), En. Anuar (Assistant Director of DOSH), En. Mohd Zin (S & H Officer of HLLS), En. Saifullizan (S & H Officer of Southern Pipe), Mr. Chan Kim Huat (S & H Officer of Hospital Seberang Jaya) and not forgotten En. Azman (Security Officer of Sunway hotel) for their information and cooperation in completing this project.

From this project, we can understand why safety and health are very important in our and our loved ones life. We also gain knowledge and got interesting and valuable experience during completing this project.

## ABSTRACT

Safety can be defined as working without injury and without suffering any illness due to man, material, machine and environment at workplace. Heavy industry is the type of industry that deals with machineries and exposed to more hazards in working. This research on Safety in Heavy Industry explained us on how important safety in our environment of workplaces. As moving to become an industrial country, we should not careless or neglect about the welfares of employees, because they are the main characters to achieve the target. By considering that, our government, nongovernmental bodies, institutional of higher learning and employers and employees themselves are altogether trying to overcome the safety problems while in workplaces. Many activities have been conduct to increase the awareness on safety in one's life and in working environment. By applying the personal protective equipment and follow the regulations that suggested by Occupational Safety and Health Acts 1994, the safety of the workplaces can be improved. Therefore we have made 2 cases study in heavy industry to know how safety systems are applied. Lastly, the co-operation of all sides is the most important measure should have in solving this problem.

**TABLE OF CONTENTS**

<b>CONTENTS</b>		<b>PAGE</b>
PAGE TITLE		i
ACKNOWLEDGEMENT		ii
ABSTRACT		iv
TABLE OF CONTENTS		v
LIST OF TABLES		viii
LIST OF FIGURES		ix
<b>CHAPTER I</b>	<b>INTRODUCTION</b>	
1.1	Project Overview	1
1.2	Objective of Project	2
1.3	Significance of Project	3
1.4	Scope of Project	3
<b>CHAPTER II</b>	<b>IMPORTANCE OF SAFETY IN HEAVY INDUSTRY</b>	
2.1	Views of Heavy Industry	5
2.2	Importance of Safety in Heavy Industry	6

## CHAPTER I

### INTRODUCTION

We had made this research on safety in industry as our final project. It is compulsory for final semester students of Mara University of Technology to make and complete one project. So these is our introduction of project:

#### 1.1 Project Overview

This research on awareness of safety in heavy industry actually is an idea of our supervisor, Pn. Dzullijah Bt. Ibrahim. We agreed of doing this research after studying industrial accident rate. In a way to be an industrial country, Malaysian should realize and cares of how many lives have sacrifice and how much life live as a handicapped person cause by industrial accident. Besides of that, industrial accident actually increases our money flow by increasing idle time, less productivity and increase medical cost. Especially in heavy industry, since they have deal with machinery and dangerous activity they become the main source of accident amount. So we have chosen safety in