

**CENTRE OF STUDIES BUILDING SURVEYING
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THE SAFETY PROCEDURE FOR OIL REFINERY

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After all hardship and afford to finish this research, I learn more about the basic safety procedure and safety matters at oil refinery. Then, I already attended the safety induction at PETRONAS and SHELL Refinery Company can gain of new knowledge about safety procedure and information for my future reference. Besides that, this research made me understand about commonly problem that happened at oil refinery and the major issues related to hazards. This has given me some advantages to more understand how to implementation the safety procedure in every sector that related to the safety matters such as construction and manufacturing industry the future.

Abstract

Accidents can happen anywhere regardless of times and reasons. According to Dr Ahmad (2002), states that an accident at work can occur due to lack of knowledge on safety aspects. The fact that he is “no or lack of knowledge of these matters can lead to workers safety are not aware of their responsibilities on workplace and they do nor realize the important of personal safety. If there is attention to safety, it is often made with verbal advice that is not implemented in the form of equipment or practical measures organized”. That is the reason why the topics of safety become issues because in every industry especially construction, oil and gas industry. Then, to implement of the safety and safety procedure on doing works are very important and need to take it seriously.

The objective this research are to understand the safety procedure issues in oil refinery, study the operations of oil refinery working procedure and correlate the safety procedure and efficacy nature for oil refinery. Next, in order to achieve this objective the particular method has been use to get the right and detailed information or data for this research. In chapter 4, researcher explains the general process to get the information about the safety procedure for oil refinery.

Finally, as a result a good safety management is more important today than ever in the Oil & Gas Industry where the opportunities of exposure the hazards in refinery was highly risk. With increasing safety concerns, and environmental and integrity management pressures, safety is now a key player in helping organizations manage and in order to achieve the objective.

1.1 INTRODUCTION

Maintenance is work that carried out to preserve an asset, in order to enable its continued use and function, above a minimum acceptable level of performance, over its design service life, without unforeseen renewal or major repair activities. Reasons for maintenance needed to be done is for physical integrity and risk management which is as a person who responsibility to manage also taking care of an assets. They have to keep the assets in good working order so as to minimize disruptions or downtimes and its also to keep the assets in a state of good repair for owner`s health and safety. “Maintenance is not merely preventive maintenance, although this aspect is an important ingredient to make sure that the workplace is well maintenance and zero defective repairs. Maintenance is not lubrication, although lubrication is one of it functions. Nor is maintenance simply a frenetic rush to a repair a broken machine part or building segment, although this can sometimes be a dominant maintenance activity (Lindley R. Higgins , 1995).

A safety working place and well maintenance make the occupant feel comfortable and secure with the facilities and environment of working place as it should be. According to Maimunah Aminuddin (2006), no matter how safe you think your workplace is, you should take safety and health matters seriously because there is no workplace is 100% safe and no work force is 100% healthy but improvements can and should always be made. In oil refinery plants, Maintenance department plays very significant and critical roles to ensure that the workplace is zero defective and safety. Then, maintenance department also responsibilities to improving productivity by actively advancing towards the state of the art