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SAFETY MANAGEMENT IN OIL AND GAS INDUSTRY
IN MALAYSIA: UPSTREAM PHASE

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JULY 2024

ABSTRACT

This research was carried out to study about safety management among oil and gas employers in oil and gas industry. The oil and gas industry will always be continually adapting to changes in technology, market demands or price thus increasing the operational risk and danger in the operation. There are innate dangers in the oil and gas sector where workers may be exposed to hazardous environments, exposure to hydrocarbon gases and vapors, heavy machinery and equipment and innately dangerous working spaces. Therefore, the aim of this research is to suggest the solution in safety management implementation in oil and gas construction project in the upstream sector in Malaysia. The objectives of this research are to identify the current practices of safety management implemented in oil and gas construction project in the upstream sector in Malaysia, to analyse the problems in implementation of safety management in oil and gas construction project in the upstream sector in Malaysia and to suggest the solution in safety management implementation in oil and gas construction project in the upstream sector in Malaysia. The methodology for conducting this study is using qualitative method which is the data collection will be conduct by interview the safety managers in oil and gas industry by face to face and online and with open ended question. By the end of this research, the safety management at oil and gas construction project will improved. It is hoped that this research can be successful and achieve the aims and objective of the research.

ACKNOWLEDGEMENT

First and foremost, I would like to thank Allah SWT for the blessing and spirit and physical strength which allowed me to accomplish this dissertation successfully.

I would like to dedicate my appreciation to my supervisor, Dr. Lilawati Binti Ab Wahab who has given me support and guidance during my research, for her invaluable assistance, guidance and understanding throughout the research work and most specially during writing dissertation. My deepest and sincere appreciation to my beloved parents who has in many ways given me the ideas, inspiration and countless support through at the preparation of this dissertation. In this opportunity, I would like to convey a million thanks and appreciation to all my friends for their help in completing this dissertation.

It is my great pleasure to acknowledge lecturers at College of Built Environment (JABT), campus Seri Iskandar, Perak for their valuable assistance and support rendered for the successful completion of this dissertation. Thanks also to all the people that have contributed their ideas, without their ideas and advice, this research could not have been completed. In addition, I owe a special word of thanks to those who have agreed to be interviewed formally and informally. Thank you so much and may Allah SWT bless you in everything you do.

Thank you.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

This chapter provide a general background of the study from local perspectives. A statement of problem, aims and objectives of study, scope and limitation of study, research methodology, as well as a brief synopsis of the study will be provided in this chapter in order to give the readers an initial view of the research.

1.2 RESEARCH BACKGROUND

Safety management is very important for many construction fields in general and oil and gas industries in particular. However, there are still many projects in which they don't strictly pay attention to safety assurance. This is the main concern of project managers. An unsafe working environment can cause lots of damages to properties and human lives. In order to implement safety in these projects effectively, the project management boards must have serious commitments about the safety performance in construction projects. Construction in oil and gas project is difficult and risky because the majority of construction projects in third world are fraught with dangers in a variety of ways (Kassem *et al*, 2020).

According to Asad *et al.* (2020), for construction projects in the oil and gas sectors to be successful, it is critical that the significant risks affecting the projects be thoroughly examined, including their causes and characteristics, in order to support the project team in proposing the most appropriate and practical mitigation strategies. Nowadays, many construction firms have improved their health and safety management system in order to reduce risks and hazards and successfully manage the project. As a result,