



Sudan University of science and Technology

Post Graduate College

Quality Centre

**The Impact of the Application
OHSAS 18000 in the Sudanese Oil Fields**

**أثر تطبيق شرط الصحة المهنية و السلامة 18000 في حقول النفط
السودانية**

**Thesis submitted in a partial fulfillment of the requirement for Msc
in managing quality excellence**

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال تعالى :

لَا يُكَلِّفُ اللَّهُ نَفْسًا إِلَّا وُسْعَهَا ۗ لَهَا مَا كَسَبَتْ وَعَلَيْهَا مَا اكْتَسَبَتْ ۗ رَبَّنَا لَا
تُؤَاخِذْنَا إِنْ نَسِينَا أَوْ أَخْطَأْنَا ۗ رَبَّنَا وَلَا تَحْمِلْ عَلَيْنَا إِيصَارًا كَمَا حَمَلْتَهُ عَلَى الَّذِينَ
مِنْ قَبْلِنَا ۗ رَبَّنَا وَلَا تُحَمِّلْنَا مَا لَا طَاقَةَ لَنَا بِهِ ۗ وَاعْفُ عَنَّا وَارْحَمْنَا ۗ
أَنْتَ هَوْلَانَا ۗ فَاَنْصُرْنَا عَلَى الْقَوْمِ الْكَافِرِينَ .

صدق الله العظيم

سورة البقره الايه (٢٨٦)

Dedication

Dedicate this thesis to the spirit of my lovely mother.

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Praise be to God, Allah blessings the prophet Mohammed and peace be upon him

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Abstract

This study was conducted in Khartoum State to assess the impact of the application of OHSAS 18000 in the reduction of accidents and waste of resources in the oil industry in Sudan from 2008 to 2013.

OHSAS 18000 System is international certificate in occupational health and safety management system specification; It comprises two parts OHSAS18001 and OHSAS 18002, which is aimed to help the control of professional organizations to manage health and safety risks.

The study relied on the views of a sample of individuals working in the field of petroleum in a company operating in Sudan and adopted the default search model which was built after a review and analysis of the literature relevant to the subject under the core premise of the origin of a group of sub-hypotheses. As well as the method was used in the statistical analysis of the data using a computer program (SPSS). Objective of the study is to illustrate that commitment to the proper application of the system OHSAS 18000 leads to reduce the rate of accidents and injuries, thus reducing the cost of non- conformal, which means that more efficient and effective performance of the institution has achieved the highest degrees of securing the safety of their employees.

This study attempted to clarify the foundations of two axes and two strategic role for the quality management system requirements and the application of occupational health and safety OHSAS 18000 on the one hand and the waste of resources, and accidents and injuries on the other hand.

This study showed a correlation between the reduction of waste of resources, and accidents and injuries and application system OHSAS 18000 as well as to build a culture of safety and prevention a positive role in the tool Foundation and the efficient management of effective safety increases the overall performance of the institution, based on the results the study concluded that there is a positive relationship between reducing the waste of resources, and accidents and injuries and the application of the requirements of OHSAS 18000 system and that there is a relationship between the overall objectives of the organization with regard to occupational safety and health and the application of the system OHSAS18000.

The study found a number of recommendations, including Publication of protection culture reduces the wastage of resources in the organization. Considering safety as a system based on the use of scientific facts reduces occupational exposures, Reduce accidents before they occur depending on the identification and knowledge of dangerous places for the safety of workers.

مستخلص الدراسة

أجريت هذه الدراسة في ولاية الخرطوم لتقييم أثر تطبيق OHSAS 18000 في الحد من الحوادث وهدر الموارد في صناعة النفط في السودان في الفترة من 2008/2013. نظام OHSAS 18000 شهادة دولية في الصحة المهنية والسلامة نظام ادارة المواصفات، وهو يتكون من جزئين OHSAS 18002 و OHSAS 18001 وهو يرمي الى المساعدة على المراقبة في المنظمات المهنية لادارة مخاطر الصحة والسلامة.

اعتمدت الدراسة على آراء عينة من الأفراد العاملين في مجال البترول في احدي الشركات العامله في السودان واعتمد البحث نموذجاً افتراضياً تمّ بناؤه بعد مراجعة وتحليل الأدبيات ذات العلاقة بالموضوع في إطار فرضية رئيسية وقد انبثقت عنها مجموعة من الفرضيات الفرعية. وكذلك تم استخدام برنامج إحصائي في تحليل البيانات باستخدام البرنامج الحاسوبي (SPSS).

هدف الدراسة توضيح ان الالتزام بالتطبيق السليم لنظام OHSAS 18000 يؤدي الي خفض معدل الحوادث والاصابات وبالتالي تقليل تكلفه عدم المطابقه مما يعني ان زياده كفاءه وفعاليه اداء المؤسسه يتحقق بتأمين اعلي درجات السلامه للعاملين بها.

حاولت هذه الدراسة توضيح محورين أساسيين وهما الدور الإستراتيجي لإدارة الجودة وتطبيق متطلبات نظام السلامة والصحة المهنية OHSAS 18000 من جهة و هدر الموارد ، والحوادث والإصابات من جهة اخري. اوضحت هذه الدراسه ان تبني ثقافه السلامه والوقايه لها دور ايجابي في اداء المؤسسه وان كفاءه اداره السلامه الفعاله تزيد من اداء المؤسسه عموماً، وجود علاقته بين الحد من هدر الموارد ، والحوادث والإصابات و تطبيق نظام OHSAS 18000.

بناءً على النتائج خلصت الدراسة الى ان هناك علاقة ذات دلالة احصائية بين الحد من هدر الموارد، والحوادث والإصابات وتطبيق متطلبات النظام OHSAS 18000 وان هناك علاقة بين الأهداف العامة في المؤسسه موضوع الدراسه فيما يتعلق بالسلامة والصحة المهنية وتطبيق النظام OHSAS18000.

وتوصلت الدراسه الي جملة من التوصيات منها ضروره نشر ثقافه الوقايه في مقابل ثقافه الحمايه يقلل الهدر في الموارد بالمؤسسه، إعتبار السلامة كنظام مبني على إستخدام الحقائق العلمية يقلل من التعرضات المهنية. وتقليل الحوادث قبل وقوعها يعتمد علي تحديد و معرفه الاماكن الخطره علي سلامه العاملين .

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List of Abbreviations

OHSAS	Occupational health and safety assessment series
WHO	World Health Organization
ILO	International Labor Organization
ILO-OSH 2001	International Labor Organization Occupational Safety and Health Manage System
ISO	International Organization for Standardization
S&H	Safety and Health
GDP	Gross domestic product
H	HYPOTHESIS