

# 1. QUESTIONNAIRE

Sudan University of science and Technology  
Post Graduate College  
Quality Centre

Dear .....

Thanks for your response; the data in this questionnaire will be used for study carried out to evaluate the impact of the application of OHSAS 18000 in the oil industry in Sudan 2008-2013

This data will be use only for scientific research.

First, personal data: -

1 / Sex: -

1/ Male

2 / Female

2/ Qualifications: -

1/ secondary

2 / college

3 / postgraduate

3/ Job Description: -

1/ administrative

2 / technical

3 /other

4 / Years of Experience: -

1/ less than 5

2/ less than 10 years

3 / More than 10 years

5 / install safety system in the origination

1/Yes

2 / No

1/ There is a positive relationship between reducing waste of resources accidents and injuries and the application of the system OHSAS 18000.

Strongly Disagree	Disagree	neutral	agree	strongly agree	
					1. The existence of an Occupational Safety and Health system reduces the wastage of resources in organization.
					2. Publication of protection culture reduces the wastage of resources in the organization.
					3. To reduce wastage, protection procedures, and the installation of an emergency system should be applied.
					4. The commitment of senior management contributes to the application of occupational health and safety in the organization.
					5. The participation of employees in the preparation, implementation, development of internal regulations maintaining the Occupational Safety and Health contributes to resource conservation.
					6. The existence of laws apply dissuasive conserve resources
					7. The existence of an easement system of applications contributes to the development of the whole system

2/ There is a relationship between the overall objectives with regard to occupational safety and health and the application OHSAS 18000.

Strongly Disagree	Disagree	neutral	agree	strongly agree	
					1/ the organization's goals that applicable and congruent with the system of OHSAS18000 its applications is clear and can be measured by the OHSAS18000 system
					2/ the organization that record and define the scope its internal regulations clearly , helps its employees on the its application
					3/ Development of a plan for implementing a safety goals is an important condition for the implementing of a safety management system .
					4/ Instructing and publication of Occupational Safety and Health requirements is important to minimize the risks.
					5/Considering the safety as a system based on the use of scientific facts reduces occupational exposures
					6/Amendments of the General system of the organization in line with OHSAS regulations help conserve resources
					7/The organization's goals contain the general Framework a of OHSAS

3/ Safety oriented work force is positive factor for organization safety performance

Strongly Disagree	Disagree	neutral	agree	strongly agree	
					1. . Providing employees with the knowledge and equipment required to perform their jobs efficiently increases occupational safety and health in the organization
					2. Identifying roles and responsibilities ,improve the performance of the safety system
					3. To improve the efficiency of the safety system, the Procedures and applications of work must be applied.
					4. Management support for ideas of supervisors and employees in decisions relating to occupational safety and health reduces the risk in the work environment
					5. employees awareness of safety requirements.
					6. Reduce lost working time resulting from accidents
					7. Reduction of accidents before they occur depends on identifying and knowledge of dangerous places for the safety of the employees

4/ the close relation connection between efficient safety management and organization performance

Strongly Disagree	Disagree	neutral	agree	strongly agree	
					1/Efficiency Control Procedures reduce accidents and injuries and thus reduces wastage of resources which contribute to increases the effectiveness of the organization
					2/preventive measures increases the organizational efficiency.
					3/The efficiency safety system reduces the direct and indirect cost of accidents and also injuries
					4/The efficiency of protection procedures help to achieve the objectives of quality operations
					5/ good Maintaining reduces accidents manpower.
					6/the connection between the methods of safety ,occupational health , production management systems, services and technological processes applied to boost the efficiency of the organization's
					7/ Motivate the employees , encourage them and have their attention to work to satisfy the needs of safety and security

## 2. TABLES OF RESULT

Table: 1 Qualifications

		Frequency	Percent
Valid	University	27	90.0
	Postgraduate	3	10.0
	Total	30	100.0

Table: 2 Job Description

		Frequency	Percent
Valid	Administrative	5	16.7
	technical	17	56.7
	Other	8	26.7
	Total	30	100.0

Table: 3 Years of Experience

		Frequency	Percent
Valid	less than 4	10	33.3
	5 – 10	16	53.3
	More than 10 years	4	13.3
	Total	30	100.0

Table: 4 the existence of an Occupational Safety and Health system reduces the wastage of resources in organization.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 5 Publication of protection culture reduces the wastage of resources in the organization.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 6 to reduce wastage, protection procedures, and the installation of an emergency system should be applied.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 7 the commitment of senior management contributes to the application of occupational health and safety in the organization.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 8 the participation of employees in the preparation implementation, development of internal regulations maintaining the Occupational Safety and Health contributes to resource conservation.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 9 the existence of laws apply dissuasive conserve resources.

		Frequency	Percent
Valid	Agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 10 the existence of an easement system of applications contributes to the development of the whole system.

		Frequency	Percent
Valid	agree	1	3.3
	Strongly agree	29	96.7
	Total	30	100.0



Hypotheses: 2-There is a relationship between the overall objectives with regard to occupational safety and health and the application OHSAS 18000.

Table: 11 the organization's goals that applicable and congruent with the system of OHSAS18000 their application is clear and can be measured by the OHSAS18000.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 12 the organization that record and define the scope its internal regulations clearly, helps its employees on the application.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 13 Development of a plan for implementing safety goals is an important condition for the implementing of a safety management system.

		Frequency	Percent
Valid	agree	3	10.0
	strongly agree	27	90.0
	Total	30	100.0

Table: 14 Instructing and publication of Occupational Safety and Health requirements is important to minimize the risks.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 15 considering the safety as a system based on the use of scientific facts reduces occupational exposures.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 16 Amendments of the General system of the organization in line with OHSAS regulations help conserve resources.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 17 the organization's goals contain the general Framework of OHSAS.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Hypotheses: 3-Safety oriented work force is positive factor for organization safety performance.

Table: 18 Providing employees with the knowledge and equipment required to perform their jobs efficiently increases occupational safety and health in the organization

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 19 Identifying roles and responsibilities, improve the performance of the safety system.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 20 to improve the efficiency of the safety system, the Procedures and applications of work must be applied.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 21 Management support for ideas of supervisors and employees in decisions relating to occupational safety and health reduces the risk in the work environment.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 22 employees' awareness of safety requirements.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 23 Reduce lost working time resulting from accidents.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 24 Reduction of accidents before they occur depends on identifying and knowledge of dangerous places for the safety of the employees.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Hypotheses: 4/ the close relation connection between efficient safety management and organization performance.

Table: 25 / Efficiency Control Procedures reduce accidents and injuries and thus reduce wastage of resources which contribute to increases the effectiveness of the organization.

		Frequency	Percent
Valid	agree	2	6.7
	strongly agree	28	93.3
	Total	30	100.0

Table: 26 preventive measures increase the organizational efficiency.

		Frequency	Percent
Valid	agree	3	10.0
	strongly agree	27	90.0
	Total	30	100.0

Table: 27 the efficiency safety system reduces the direct and indirect cost of accidents and also injuries.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 28 the efficiency of protection procedures help to achieve the objectives of quality operations.

		Frequency	Percent
Valid	agree	3	10.0
	strongly agree	27	90.0
	Total	30	100.0

Table: 29 maintaining good manpower reduce accidents.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 30 The connection between the methods of safety, occupational health.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

Table: 31 Motivate the employees, encourage them and have their attention to work to satisfy the needs of safety and security.

		Frequency	Percent
Valid	agree	1	3.3
	strongly agree	29	96.7
	Total	30	100.0

### 3. Terms and definitions

The terms and definitions given in OHSAS 18001, OHSAS 18001 .

### **Acceptable risk**

risk that has been reduced to a level that can be tolerated by the organization having regard to its legal obligations and its own .

### **Audit**

systematic independent and documented process for obtaining “audit evidence” and evaluating it objectively to determine the extent to which “audit criteria” are fulfilled continual improvement recurring process of enhancing the OH&S management system in order to achieve improvements in overall OH&S performance consistent with the organization’s OH&S policy simultaneously corrective action to eliminate the cause of a detected nonconformity or other undesirable situation Document

### **Hazard**

Source, situation, or act with a potential for harm in terms of human injury or ill health or a combination of these hazard identification process of recognizing that a hazard exists and defining its characteristics

### **Ill health**

Identifiable, adverse physical or mental condition arising from and/or made worse by a work activity and/or work related situation.

### **Occupational health and safety (OH&S)**

Conditions and factors that affect, or could affect the health and safety of employees or other workers (including temporary workers and contractor personnel), visitors, or any other person in the workplace.

### **OH&S management system**

Part of an organization’s management system used to develop and implement its OH&S policy and manage its OH&S risks.

### **OH&S objective**

OH&S goal, in terms of OH&S performance that an organization sets itself to achieve (Objectives should be quantified wherever practicable).

### **OH&S performance**

Measurable results of an organization's management of its OH&S risks.

### **OH&S policy**

Overall intentions and direction of an organization related to its OH&S performance as formally expressed by top management

### **Organization**

Company, corporation, firm, enterprise, authority or institution, or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration

### **Preventive action**

Action to eliminate the cause of a potential nonconformity or other undesirable potential situation.

### **Procedure**

Specified way to carry out an activity or a process

### **Record**

Document stating results achieved or providing evidence of activities performed

### **Risk**

Combination of the likelihood of an occurrence of a hazardous event or exposure(s) and the severity of injury or ill health that can be caused by the event or exposure(s).

## **4. REQUIREMENTS**

OHSAS 18001 standard has a number of requirements that include the following:

- 1-Scope.
- 2-Reference publications.
- 3-Terms and definition.
- 4 - OH&S management system requirements.
  - 4-1 General requirements.
  - 4-2 OH&S policy.
  - 4-3 Planning.
    - 4.3.1 Hazard identification, risk assessment and determining controls
    - 4.3.2 Legal and other requirements
    - 4.3.3 Objectives and programmer (s)
  - 4.4 Implementation and operation
    - 4.4.1 Resources, roles, responsibility, accountability and authority
    - 4.4.2 Competence, training and awareness
    - 4.4.3 Communication, participation and consultation
      - 4.4.3.1 Communication
      - 4.4.3.2 Participation and consultation
    - 4.4.4 Documentation
    - 4.4.5 Control of documents
    - 4.4.6 Operational control
    - 4.4.7 Emergency preparedness and response
  - 4.5 Checking
    - 4.5.1 Performance measurement and monitoring
    - 4.5.2 Evaluation of compliance
    - 4.5.3 Incident investigation, nonconformity, corrective action and preventive action
      - 4.5.3.1 Incident investigation
      - 4.5.3.2 Nonconformity, corrective action and preventive action
    - 4.5.4 Control of records
    - 4.5.5 Internal audit
  - 4.6 Management review. ((BSI, OHSAS 18001:2007, 2007)



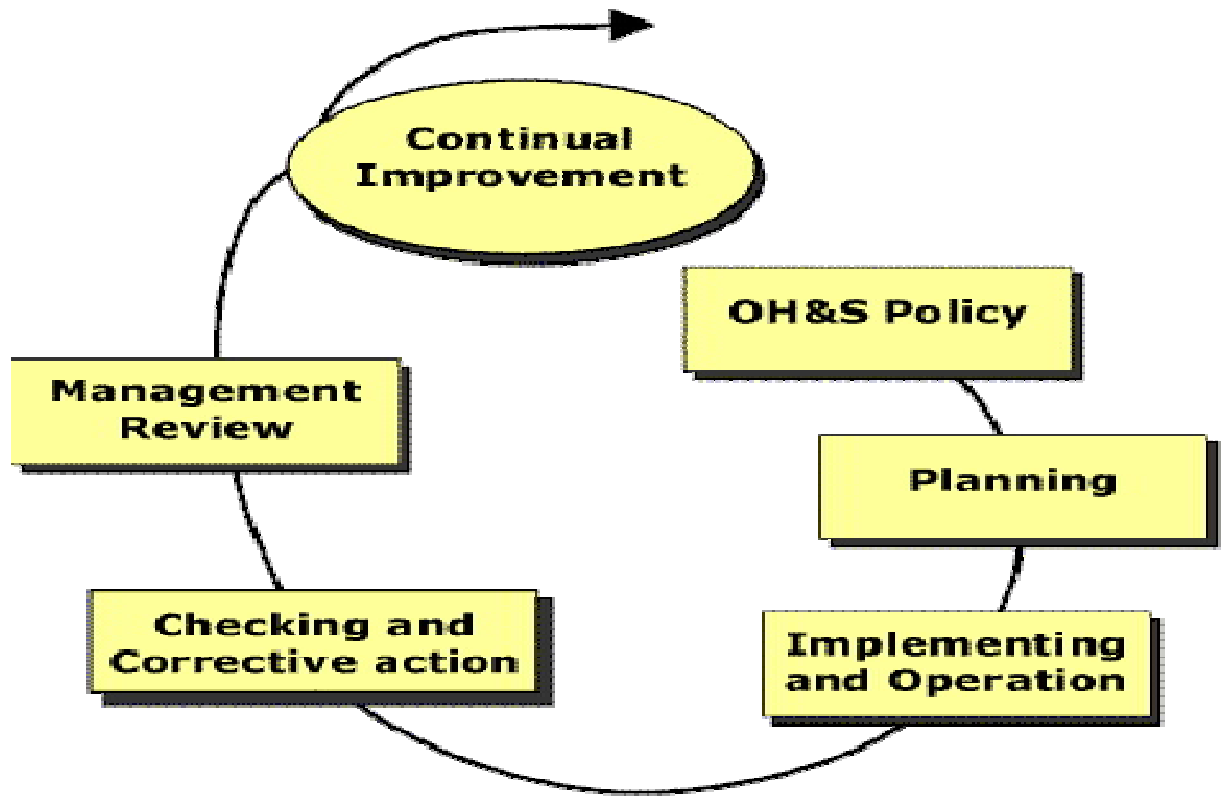


Figure 1: OH&S Management System Model for OHSAS 18001 (BSI, OHSAS 18001:2007, 2007)