



## **OFFSHORE OPERATIONS COURSE**

<b>Course Duration</b>	<b>Location</b>	<b>Course Delivery</b>
2 days	Lagos Nigeria	Class Room

Satisfactory completion of this course earns each participant a certificate of completion from University of Texas.

### **COURSE OVERVIEW**

Operating in oceans or seas, offshore presents special problems to oil producers that they do not have to face on land sites. This course examines many of the special conditions the marine environment imposes on finding, producing, and transporting oil and gas. This Course is intended for anyone who wants fundamental information and understanding about offshore oil and gas operations. Techniques and equipment

Topics include fundamentals, exploration, drilling rigs, drilling a well, exploration drilling, development drilling and completion, production and Workover, and oil and gas transportation

### **Course Pre-requisites**

This course is designed for entry level personnel, young drilling engineers, both field and administrative staff of Drilling related service Companies. Also Supervisors, Drill Masters, and Drilling Engineers with field experience. The course is intended to include both field, office based personnel and anyone who wants an overview of Drilling Operations. Students should bring a Laptop with Microsoft office and PDF version installed. Students must be prepared for 1 hour of homework every night.

### **Course Outline**

#### **PART 1: Introduction**

First Offshore Operations in the U.S.

The Scope of Offshore Operations

Oil and Gas

Characteristics of Oil and Gas

Characteristics of Rock

Types of Rocks

Origin of Oil and Gas

Migration and Accumulation of Oil and Gas

Traps

Summary

## **PART 2**

Exploration

Magnetic Surveys

Gravity Surveys

Seismic Surveys

Survey Locations

Obtaining Drilling Rights

Summary

## **PART 3**

Drilling Rigs

Bottom-Supported Units

Floating Units

Summary

## **PART 4**

Drilling a Well

Bits and Drilling Fluid

Circulating System

Rotating Systems

Power System

Hoisting System

Drilling Personnel

Summary

## **PART 5**

Exploration Drilling  
Selecting a Rig  
Drilling from Bottom-Supported Units  
Drilling from Floating Units  
Formation Evaluation  
Well Abandonment  
Summary

## **PART 6**

Development Drilling and Completion  
Drilling Platforms  
Mobile Offshore Drilling Units  
Directional and Horizontal Drilling  
Well Completion  
Summary

## **PART 7**

Production and Workover  
Reservoir Drive Mechanisms  
Handling Oil, Gas, and Water  
Artificial Lift  
Additional Recovery Techniques  
Well Servicing and Workover  
Summary

## **PART 8**

Oil and Gas Transportation  
Transportation by Pipeline Transportation by Tanker  
Summary

Upon Completion of this course, Students will be awarded certificate of completion from **The University of Texas USA.**