

## Introduction to Subsea Systems

Introduction to Subsea Systems course is designed for delegates who are either entering the industry or are within the industry already, but not directly in contact with subsea systems. In attending this course delegates will achieve an awareness and high level knowledge of all the capital equipment elements in the subsea system. The course identifies all the connections and functionality of the subsea system components used in the overall architecture of subsea systems in today's drilling industry from floating drilling installations, shallow water environments to the recent ultra-deep water fields being explored.

### Course Outline

- Subsea Building Blocks
- Subsea Building Blocks for Subsea Control System
- Subsea Building Blocks for Well Control Circulations
- Typical Drilling Process
- Drilling BOP Stack Deployment Process
- Maintenance of Subsea-Related Equipment

### Who Should Attend

- Subsea Trainees,  
Green Hat New Entrants,  
Supply Chain Personnel,  
Training Management Personnel,  
Oil and Gas Industry Office Staff.

### Course Duration

- 2 Days

### Certification

There is no formal test at the end of the course. After successful course completion delegates receive a course attendance certificate accredited by International Association of Drilling Contractors Drilling Industry Training (IADC DIT).

### Course Overview

This course has been specifically developed to provide a high level overview of subsea systems. This detailed overview comprises of pictorial presentations, sketches and photographs to better explain the connectivity of the core components of the subsea drilling system used on floating drilling installations. The course also identifies the main equipment and how these critical equipment elements fit together in the complete system. On completion of the course, the delegates will be able to identify subsea system elements, understand the connectivity and interface implications for subsea systems and differentiate between shallow water and deep water core components.

If you are interested in attending the course or looking  
for more information about the training please contact



## COURSE CONTENT AIMS AND OBJECTIVES

### **SECTION 1: SUBSEA BUILDING BLOCKS**

Take a high-level overview of the major subsea system components using block and interconnection diagrams.

### **SECTION 2: SUBSEA BUILDING BLOCKS FOR SUBSEA CONTROL SYSTEM**

Building blocks for BOP control systems: covering both hydraulic pilot-operated and MUX systems using two separate interconnection diagrams.

### **SECTION 3: SUBSEA BUILDING BLOCKS FOR WELL CONTROL CIRCULATIONS**

Building blocks to the subsea circulatory system using a fully labelled interconnection diagram.

### **SECTION 4: TYPICAL DRILLING PROCESS**

Step by step procedure for a conventional drilling process from a floating drilling installation, including full illustrations and animations.

### **SECTION 5: DRILLING BOP STACK DEPLOYMENT PROCESS**

The generic procedures used by all floaters to deploy a drilling BOP stack, inclusive of surface systems rig-up and initial pressure testing on the subsea wellhead.

### **SECTION 6: MAINTENANCE OF SUBSEA-RELATED EQUIPMENT**

A high level overview of well control equipment maintenance tasks with emphasis on between well minimum requirements.

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