

# SIPROD (Simultaneous Drilling and Production) for Offshore Platforms

## INTRODUCTION

- SIPROD (Simultaneous Production and Drilling) is performing simultaneous activities of production and drilling at one phase and one location. When drilling and production activities are combined, the resultant magnitude of risk to personal and property is generally perceived to be high enough to discourage simultaneous drilling and production. In certain circumstances, however, it may be financially attractive to maintain production while drilling, thus avoiding the potential loss or delay of production.
- In order to enter in to a SIPROD mode campaign, specific design modifications has to be carried out on the Drilling Platform and the Production Platform or any other adjoining platforms to accommodate the rig and to ensure that production and safety systems are upgraded to cater for the increased risks due to the simultaneous activities.

This training seminar will feature:

- SIPROD Philosophy and what are needed for the SIPROD Preparation Package
- Understanding what the rig-up package comprises
- The Concept of Well-tie in package and what it comprises
- The Concept of Rig down package
- Understanding what the Reinstatement package is and what it comprises
- Understanding and grasping the limits of SIPROD boundaries

## OBJECTIVES

By the end of this training seminar, participants will be able to:

- Understand what is SIPROD Philosophy and what are needed for the SIPROD Preparation package
- Understand the complexities of rig-up packages
- Understand Well tie-in packages and what it comprises
- Fully understand the concept of Rig down package
- Understand what is involved in Reinstatement packages
- Fully understand the scope of SIPROD and its boundaries

## WHO SHOULD ATTEND?

This training seminar is suitable to a wide range of professionals but will greatly benefit:

- Asset Managers
- Field Engineers
- Operations Engineers
- Production Engineers
- Drilling Engineers
- Project Engineers & Managers
- Construction Managers & Supervisors
- Workpack Engineers
- Structural Engineers
- Metocean Engineers
- Pipeline Discipline Engineers
- Subsea Equipment Engineers
- Maintenance Engineers
- Contract Administrators, Buyers and Procurement Executives
- Cost Estimating, Project Control and Planning Engineers
- Diving and Diving Support Personnel

## Course Outline

### Introduction to the SIPROD Course

- Pre-course Assessment Test
- Identify and Set the Expectations of the Course Participants
- Learning Objectives of the SIPROD Course
- Definitions - Abbreviations
- Typical Project Documentations, Codes and Standards
- Introduction to a Case Study
- Scope of SIPROD
- Pre-course Assessment Test<sup>[1]</sup><sub>[SEP]</sub>
- Course Learning Objectives vs. Course Participants' Expectations

### Case Study Deliverables – Class Exercise 1

- System Design for SIPROD 1
- Depressurisation of Systems
- Shutdown Systems – USD, PSD, ESD
- Shutdown Cause and Effects

## Case Study Deliverables – Class Exercise 2

- System Design for SIPROD 2
- Isolation of Sumps
- Hazardous Area Classification
- ESD Push-Buttons at Driller's Console
- Kill Knob at SIPROD Alarm Panel

## Case Study Deliverables – Class Exercise 3

- System Design for SIPROD 3
- Fire Water Mains
- Escape Routes
- Well Unloading with Temporary System and Burner
- Deliverables for SIMPOS for Structural & Safety Disciplines

## Case Study Deliverables – Class Exercise 4

- Instrument Systems
- Hook-up and Commissioning
- Process and Piping Systems
- Process and Instrumentation
- Post-course Assessment Test