

# WELLSHARP Subsea

Subsea Well Control Course Outline IADC



## 3.5 DAYS - DRILLER

### LEARNING OBJECTIVES

- Subsea well control concepts
- Pre-recorded data
- Well control methods
- Kick awareness
- Barriers
- Kick detection
- Tophole drilling and shallow gas
- Shut-in procedures
- Risk management

### SUBSEA WELL CONTROL CONCEPTS

- Downhole pressures
- Downhole temperatures

### PRE-RECORDED DATA

- Choke-line friction pressure (CLFP)
- Subsea killsheet
- Subsea simulation
  - Kick detection
  - Well shut-In
  - Killsheet data

### WELL CONTROL METHODS

- Driller's Method
- Wait & Weight Method
- Pump startup
- Sweeping the stack
- Risk of gas in riser

### KICK AWARENESS

- Ballooning
- Riser margin
- Swabbing and surging

### BARRIERS

- Subsea BOP stacks
- Lower marine riser package (LMRP)
- Risers
- Valves
- Connectors
- Control systems

### KICK DETECTION – REVIEW OF WARNING SIGNS

### TOPHOLE DRILLING AND SHALLOW GAS

### SHUT-IN PROCEDURES

### RISK MANAGEMENT

- Emergency disconnect system (EDS)
- Emergency backup system
- ROV intervention
- Riser gas