T i t l e Training & HR Development



Course Title	Advanced Well Completion & Stimulation		
Credit Hours		Venue	Date
25 H		Dubai	7 th – 11 th July 2024

Objectives

- By the end of this Course participants will be able to:
 - ✓ Understand geological history and its connection to offshore drilling and production industry
 - ✓ Explain the employment of the different methods of exploration for oil and gas
 - ✓ Describe the different equipment and methods for well testing and logging
 - ✓ Explain why and how cutting of formation core samples is undertaken
 - ✓ Calculate pressures and pressure gradients in drilling and production wells
 - ✓ Explain the construction of the different well control systems and equipment, and how they operate
 - ✓ Employ methods and procedures for well control in a simulated environment
 - ✓ Explain the most common drilling operations, and the tools and equipment involved
 - ✓ Describe the most common floating and fixed installations and their main systems for operation
 - ✓ Explain the construction of a well, including the use of casings, wellheads and cementing methods and techniques
 - ✓ Explain the installations of hydraulic/pneumatic/electrical systems for control of drilling and well maintenance operations
 - ✓ Explain methods for completing production wells
 - ✓ Describe construction of a production well with production tubing wellhead and x-mas trees
 - ✓ Explain the main principles of sub-sea completions and operations

The Delegates

✓ Drilling Engineers, Senior Drilling Engineers, Drilling Supervisors, Petroleum Engineers, Completion Engineers, Tool Pushers, Reservoir and Senior Reservoir Engineers, Geologists, Production and Completion Field Operators, Foremen, Industry Personnel.

Contents

- Introduction and Course overview.
- Exploration
 - ✓ Search for oil & gas
 - ✓ Terms and nomenclature of geology used in oil industry
 - ✓ Petroleum: How it is formed and trapped, geology of the suitable rocks for favorable deposition of hydrocarbons
- Introduction to Drilling Technology
 - ✓ Drilling methods
 - ✓ Technical Definitions
 - ✓ Rotary Drilling practices
 - ✓ Well Construction and Design of Casing String
 - ✓ Drilling fluids
 - ✓ Well control Equipment
 - ✓ Fishing and fishing Tools
 - ✓ Offshore drilling Practices
 - ✓ Safety on the rig

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• Well Completion and Testing

- ✓ Reservoir engineering aspects for well completion
- ✓ Phase behaviour
- ✓ Performance Evaluation
- ✓ Production inflow performance
- ✓ Types of well completion
- ✓ Corrosive high pressure completion
- ✓ Tubing less well completion
- ✓ Horizontal and multilayered completion
- ✓ Open hole completion
- ✓ Slotted liner completion
- ✓ Special completion
- ✓ Packer completion
- ✓ Perforation Techniques
- ✓ Over balanced and under balanced
- ✓ Well head equipment
- ✓ Down hole tools
- ✓ Classification of well production tests
- ✓ Transient pressure testing: well testing strategy
- ✓ Production testing tools
- ✓ Drill stem Test
- ✓ High pressure and high temperature testing
- ✓ Testing of sour wells
- ✓ Well activation and flow measurements

Artificial Lift

- ✓ Artificial lift
- ✓ Need for artificial lift
- ✓ Various modes of lifts
- ✓ Selection criterion and design of suitable lift
- ✓ Trouble shooting
- ✓ Optimization

• Reservoir Pressure Maintenance through Water / Gas Injection

- ✓ Reservoir pressure maintenance
- ✓ Need for reservoir health management
- ✓ Types of water injection methods, peripheral and spot injection
- ✓ Frontier areas of EOR
- ✓ Compatibility of injection fluids
- ✓ Monitoring

• Work-over Operations, Well Stimulation & Sand Control

- ✓ Work over rig components
- ✓ Introduction
- ✓ Rig components
- ✓ Draw works
- ✓ Hoisting System
- ✓ Rotary equipment
- ✓ Mud Pumps
- ✓ Prime over
- ✓ Work over Jobs

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- ✓ Major Repair Jobs
- ✓ Casing Damage repair
- ✓ Fishing
- ✓ Well Stimulation
- ✓ Formation Damage
- √ Various stimulation techniques
- ✓ Gravel packing
- ✓ Activation

• Production, Storage, processing & Transportation

- ✓ Production
- ✓ Design of GGS/GCS/ EPS
- ✓ Design of CTF
- ✓ Sour component handling
- ✓ Demulsification and desalting
- ✓ ETP- design
- ✓ Transportation
- ✓ Introduction to Offshore Technology especially Deep water
- ✓ Offshore Practices
- ✓ Introduction to offshore technology
- ✓ Deep water: frontier area of technology
- ✓ Case Studies
- ✓ Discussions

• Course summary.

Discount 10% in case of Three P. (or more)	Language English & Arabic	Fees USD : 5000 \$
Timetable	How to Register?	Other Dates
09:00 Am : 11:00 Am (1 st Section) 11:00 Am : 11:15 Am (Break 1) 11:15 Am : 12:45 Pm (2 nd Section) 12:45 Pm : 01:00 Pm (Break 2) 01:00 Pm : 02:00 Pm (3 rd Section)	www.titlehr.com Info@titlehr.com Tell 00971559687070	15 th – 19 th September 2024