Introduction to Wellsite

Course Price

£2750

Course Description

This course is aimed at Drilling and Completion administrative personnel wishing to deepen their knowledge of basic field equipment, operations and exploration science. The course includes discussion of basic reservoir geology, drilling components and processes. Also, the role of the operating and service company personnel in performing these processes.

Course Objectives

- Learn basic geology and why it is important to drilling and exploration.
- Identify the basic rig components and systems. Learn how they are used in day to day operations.
- Identify the wellsite personnel and their titles. Place these personnel in the proper organization by job description and rank.
- Decrypt the many acronyms used in the drilling process. Put these acronyms in context with the job process and/or equipment function.

Who Should Attend

Non-technical office personnel, accountants, administration, receptionists, etc. who have indirect contact with rig operations.

Course Content

Day 1

Brief Geology

- Importance of geology to wellsite operations
- Properties of earth’s crust
- Plate tectonics
- Continental vs oceanic plates
- Major rock formation types

**Sedimentary rock types**

- Sources of sediments
- Lithification process
- Geological record

**Source, reservoir and cap rocks**

- Properties of petroleum reservoirs
- Porosity and fluid saturation
- Permeability
- Traps
- Reservoir maps
- Estimating reserves

**Day 2**

**Normal Operations**

- Drilling operations
- Tripping and handling pipe
- Casing running and cementing
- Wireline operations
- Stuck pipe and other drilling problems
- Logistics and Waiting on weather, equipment, orders, etc…
- Completion operations

**Description of Equipment**

- Mast or derrick and hoisting system
- Rig floor
- Kelly or top drive
- Mud pumps, mud pits, shaker and circulating system
- BOP and well control
- Rig power system
- Drill String and BHA
- MWD, LWD and rig data acquisition system

**Day 3**

**Description of Drilling Personnel Roles**

- Toolpusher
- Bagemaster
- Driller
- Assistant driller
• Derrickman
• Roughneck
• Crane operator
• Roustabout

Oil Company representatives and Service Company Personnel

• Drilling Engineer/Superintendent
• Company man
• Geologist
• Mud engineer
• Mud logger
• Cementer
• Casing crew
• Directional driller
• Fisherman
• Wireline Operator
• Safety man

CPD Unit

Continuing Professional Development

21 HOURS CPD