

Petroleum Production and Operations Engineering

Course Price

£3250

Course Description

This course emphasis the role of the Well, as part of the Integrated Production System. Well Completion design concepts and the technical selection criteria for the main completion components are reviewed in detail. Group exercises on Completion and Performance as part of the learning process. The course also highlights the Operating Company's viewpoint in the area of Well Completion and Well Production Management.

By the end of the course, participants will be able to: State how Well Completion fits into the E&P Activity; Recall and discuss hydrocarbon exploitation considerations for well productivity and completion design; Describe the main parameters that influences Well Performance and Productivity; Describe the factors that influence the selection and design of the completion string and components; Carry out a completion design and explain how it will be run in the well.

Type of well test, planning the test. Surface Equipment and downhole tools.

Course Objectives

Who Should Attend

Geo-scientists, Engineers and Managers (in Drilling, Well Intervention/Services, Reservoir Engineering, Production Operations, Marketing/Sales etc.), whose jobs require them to interface with Completion Engineers, Production Technologists, Well Production Operations Engineers, and Well Maintenance/Service Engineers who wish to enhance their current job effectiveness, through more knowledge on Well Completion and Performance, than that attained from their own "core" discipline training and exposure.

Course Content

Day 1

- Reservoir -Integrated Production System
- Well Completion Methods



- Classification of Reservoir Based on the Fluids in the Reservoir

- Flow in Porous Media

- Well Deliverability (exercises)

Day 2

- Completions Effects

- Flow in Pipes

- Choke Performance

- Systems Analysis

- Tubing Design

- Completion String Design

Day 3

- Completion Equipment

- Casing and Casing Suspension

- Wellheads

- Tubing Selection

- Tubing Connection

- Packers

- Wellsite Operations

Day 4

- Present Systems

- Applications

- Requirement Designs and Types

- Controls

- Flowline Connections

- ROVs



Day 5

- Well testing overview
- Well test Type
- Surface Equipment
- Downhole Tools

CPD Unit

Continuing Professional Development

35 HOURS CPD