



DE161

Introduction to Exploration & Production Technology

Course Introduction:

Introduction to Production Technology covers fundamental concepts, following the hydrocarbons production cycle. The course starts with a revision of Reservoir Engineering fundamental notions, focusing then in the effect of well completion in production and finally concentrating in the most common operations and well interventions.

The course has practical exercises to ensure the concepts are properly understood and animations are presented to illustrate the operation of downhole tools.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- ✓ Become conversant on major topics within the production engineering
- ✓ Develop empathy for the challenges faced by the industry related to production engineering topics
- ✓ Develop the vocabulary and understanding of roles necessary to facilitate discussions with other professionals on production engineering topics

Who Should Attend?

This course is intended for all Engineers and Geoscientists working in Exploration and Drilling and needing to contact with Production Engineering space.

Course Outline:

Day 1:

Overview of Reservoir concepts. How reservoir properties affect production:

- Introduction, Course Objectives
- Overview of Production Engineering
- Geology and Production
- Rock Properties
- Fluid Properties; Reserves
- Reservoir Driving Mechanisms
- Damage and Skin

Day 2:

Performance Prediction:

- Well Testing
- Nodal Analysis
- Nodal Analysis exercises

Day 3:

Typical Upper Completion:

- Casing string and suspension
- Tubing Selection
- Tubing Connections; Packers
- Wellheads and Xmas trees
- Accessories
- Safety Valves
- Running Completions
- Artificial Lift
- Multilaterals

Day 4:

Typical Lower Completions:

- Introduction to Sand Control
- Gravel Pack Design
- Alternative Path
- Perforations

Day 5:

Production Operations: Stimulation, Surface Facilities, Wireline and Coiled Tubing:

- Acidizing Candidate Selection
- Acidizing; Fracturing
- Surface Facilities
- Production Logging
- Concerns in typical coiled tubing applications

Introduction to Exploration

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per course location. This rate includes participant's manual, and-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session