



Consulting and Training | Reach New Heights

Course Name

Basic Reservoir Engineering

Sector Name

Oil, Gas and Chemical

Document Type

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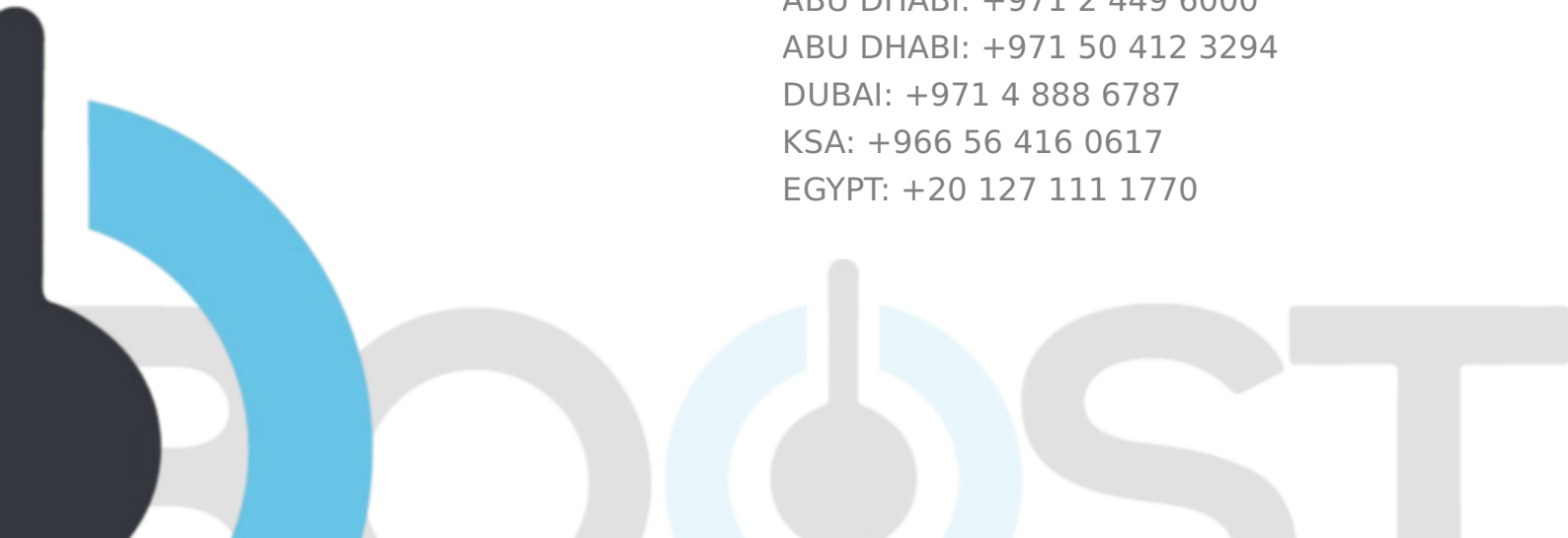
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Basic Reservoir Engineering

Course Introduction

This 5-day BOOST training course will give the reservoir engineers a better understanding of reservoir engineering practices and limitations. The course is designed to provide a good idea of reservoir engineering processes, the required data, and the limitations on the engineering analysis and interpretations. This course also provides persons who are already well trained in the other upstream petroleum industry technical disciplines with an understanding of the current state-of-the-art practices of reservoir engineering.

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Basic Reservoir Engineering

Target Audience

- ✓ Process design
- ✓ Unit Operator
- ✓ Environmental
- ✓ Process safety engineer
- ✓ Gasoline blender engineer
- ✓ Lab supervisor
- ✓ Supply chain engineer
- ✓ Distillates analyst
- ✓ Models engineer
- ✓ Chemical Operator
- ✓ Chemical Plant Operator
- ✓ Chemical Process Technician
- ✓ Control Room Supervisor
- ✓ Gas Plant Process Operator
- ✓ Gas Production Operator
- ✓ Gas Terminal Operations and Storage
- ✓ Gathering Pipeline engineer
- ✓ Oil Terminal / Storage engineer
- ✓ Pipeline Maintenance / Equipment / Compliance / Repair
- ✓ Pipeline Testing / Technician / Supervisor / Safety
- ✓ Plant Equipment Operator

- ✓ Plant Operations Technician
- ✓ Plant Shutdown
- ✓ Plant Supervisor
- ✓ Power Distribution
- ✓ Power Plant Manager
- ✓ Process Supervisor
- ✓ Refinery Operations Technician / Manager
- ✓ Terminal Operator / Manager
- ✓ Utilities Operator

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Basic Reservoir Engineering

Learning Objectives

- ✓ Know how to utilize the tools and techniques of reservoir engineering.
- ✓ Learn how to apply the principles of reservoir engineering
- ✓ Know how to develop reservoir, well performance, and asset management options
- ✓ Understand the fundamentals of fluid flow in porous media.
- ✓ Understand how the reservoirs are characterized by fluid type and drive mechanisms.
- ✓ Find out the basis for the reservoir fluid distribution.
- ✓ Have a full knowledge of oil and gas well performance and pressure build-up analysis.
- ✓ Understand the theory of oil displacement and optimum reservoir performance.
- ✓ Learn how to calculate the in-place hydrocarbon with different methods (Volumetric and Material Balance).
- ✓ Know how to predict the recovery.

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Course Outline

✓ **01 Day One**

Introduction to rock properties

- ✓ Absolute and effective porosity
- ✓ Permeability.
- ✓ Fluid saturation
- ✓ Effective and Relative Permeabilities
- ✓ Capillary pressure
- ✓ Rock Wettability

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Course Outline

✓ 02 Day Two

Types of reservoirs

- ✓ Oil reservoirs driving mechanisms
- ✓ Gas reservoir driving mechanisms
- ✓ Volumetric reserves estimation

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Course Outline

✓ 03 Day Three

Fundamentals of fluid flow in porous media

- ✓ Darcy's law
- ✓ Type of fluid in the reservoir
- ✓ Type of the flow regimes
- ✓ Pressure distribution
- ✓ Well Testing, Diffusivity Equation, Radius of Investigation, Skin, Reservoir Pressure

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Course Outline

✓ **04 Day Four**

Phase behavior diagram

- ✓ Five reservoir fluids properties
- ✓ Black oil
- ✓ Volatile oil
- ✓ Retrograde gas condensate
- ✓ Wet gas
- ✓ Dry gas
- ✓ PVT sampling
- ✓ PVT laboratory report
- ✓ Formation water properties

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Course Outline

✓ 05 Day Five

Material Balance calculation

- ✓ Recovery factor estimation
- ✓ Decline curve analysis
- ✓ Open discussion

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 29, 2027	Sept. 2, 2027	5 days	4250.00 \$	Qatar , Doha
June 28, 2027	July 2, 2027	5 days	4250.00 \$	UAE , Dubai
Oct. 19, 2026	Oct. 23, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 18, 2027	Jan. 22, 2027	5 days	4950.00 \$	England , London

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