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**Course Name**

# **Advanced Gas Condensate Reservoir Management**

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**Sector Name**

Oil, Gas and Chemical

**Document Type**

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## Advanced Gas Condensate Reservoir Management

### Course Introduction

This course is designed to provide participants with a detailed and up-to-date overview of Advanced Gas Condensate Reservoir Management.

It covers the gas condensate reservoir characteristics, phase behavior, and their significance in the oil and gas industry; the phase behavior and PVT analysis for gas condensate systems and reservoir fluid properties; the rock-fluid interactions in gas condensate reservoirs and their impact on reservoir behavior and recovery; the reservoir classification and characterization and techniques for reservoir fluid sampling and laboratory analysis; and the reservoir engineering principles specific to gas condensate reservoirs.

Further, the course will also discuss the design, execution and interpretation of well tests in gas condensate reservoirs to reservoir properties and performance; the reservoir performance analysis, condensate banking, pressure maintenance and enhancement strategies and the use of nodal analysis for production optimization; the enhanced gas recovery (EGR) methods and hydraulic fracturing techniques to improve well productivity in tight gas condensate formations; the artificial lift systems suitable for gas condensate

wells to enhance production; and the low salinity water flooding as an EOR technique in gas condensate reservoirs.

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## Advanced Gas Condensate Reservoir Management

### Target Audience

- ✓ Reservoir Engineers
- ✓ Production Engineers
- ✓ Field Development Engineers
- ✓ Petroleum Engineers
- ✓ Geoscientists
- ✓ Operations and Maintenance Engineers
- ✓ Risk and Project Managers
- ✓ Environmental and Regulatory Compliance Specialists

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## Advanced Gas Condensate Reservoir Management

### Learning Objectives

- ✓ Apply and gain an advanced knowledge on gas condensate reservoir management
- ✓ Discuss gas condensate reservoir characteristics, phase behavior, and their significance in the oil and gas industry
- ✓ Carryout phase behavior and PVT analysis for gas condensate systems and identify reservoir fluid properties
- ✓ Analyze rock-fluid interactions in gas condensate reservoirs and their impact on reservoir behavior and recovery
- ✓ Apply reservoir classification and characterization as well as techniques for reservoir fluid sampling and laboratory analysis
- ✓ Discuss reservoir engineering principles specific to gas condensate reservoirs
- ✓ Design, execute and interpret well tests in gas condensate reservoirs to determine reservoir properties and performance
- ✓ Employ reservoir performance analysis, condensate banking, pressure maintenance and enhancement strategies and the use of nodal analysis for production optimization
- ✓ Carryout enhanced gas recovery (EGR) methods and hydraulic fracturing techniques to improve well productivity in tight gas condensate formations
- ✓ Evaluate artificial lift systems suitable for gas condensate wells to enhance production and explore low salinity water flooding as an EOR technique in gas condensate reservoirs

- ✓ Implement thermal recovery methods and discuss the latest technological advances and research directions in enhancing gas condensate recovery
- ✓ Build and calibrate reservoir simulation models specific to gas condensate reservoirs and apply advanced techniques for modeling phase behavior and multiphase fluid flow in gas condensate systems

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## Advanced Gas Condensate Reservoir Management

### Course Outline

#### ✓ DAY 01

##### **Introduction to Gas Condensate Reservoirs**

- ✓ Phase Behavior & PVT Analysis for Gas Condensate Systems
- ✓ Reservoir Fluid Properties
- ✓ Rock-Fluid Interactions
- ✓ Reservoir Classification & Characterization
- ✓ Sampling & Laboratory Analysis

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## Advanced Gas Condensate Reservoir Management

### Course Outline

#### ✓ Day 02

##### Reservoir Engineering Fundamentals for Gas Condensates

- ✓ Well Testing & Interpretation
- ✓ Reservoir Performance Analysis
- ✓ Condensate Banking & Its Effects
- ✓ Pressure Maintenance & Enhancement Strategies
- ✓ Use of Nodal Analysis for Production Optimization

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## Advanced Gas Condensate Reservoir Management

### Course Outline

#### ✓ Day 03

##### **Enhanced Gas Recovery (EGR) Methods**

- ✓ Hydraulic Fracturing in Gas Condensate Reservoirs
- ✓ Artificial Lift Systems
- ✓ Low Salinity Water Flooding
- ✓ Thermal Recovery Methods
- ✓ Technological Advances in Gas Condensate Recovery

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## Advanced Gas Condensate Reservoir Management

### Course Outline

#### ✓ Day 04

##### **Reservoir Simulation Models**

- ✓ Modeling Phase Behavior & Fluid Flow
- ✓ Handling Condensate Banking in Simulation Models
- ✓ Uncertainty Analysis & Risk Management
- ✓ Simulation of Enhanced Recovery Techniques

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## Advanced Gas Condensate Reservoir Management

### Course Outline

#### ✓ Day 05

##### **Field Development Planning for Gas Condensate Fields**

Gas Condensate Reservoir Management Best Practices

Integration of Renewable Energy Sources

Regulatory & Environmental Considerations

Future Challenges & Opportunities

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### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 16, 2026	Nov. 20, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 10, 2027	Jan. 14, 2027	5 days	4250.00 \$	KSA , Riyadh
Sept. 28, 2026	Oct. 2, 2026	5 days	5950.00 \$	USA , Los Angeles
April 19, 2027	April 23, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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