ICTD
المركز العالمي للتدريب والتطوير
International Centre For Training & Development



Advanced Gas Condensate Reservoir Management

Course Introduction:

This course is designed for industry professionals seeking to deepen their understanding of the complexities involved in managing gas condensate reservoirs. As the energy sector increasingly focuses on optimizing resource extraction and enhancing recovery rates, effective reservoir management becomes crucial. This five-day course explores advanced concepts and techniques in reservoir characterization, production optimization, and integrated management strategies, providing participants with the tools needed to navigate the challenges of gas condensate fields effectively.

Participants will engage in detailed discussions on reservoir behavior, simulation models, and enhanced recovery methods. Through case studies and practical examples, attendees will learn how to apply advanced management practices to maximize the economic viability of gas condensate reservoirs. By the end of the course, participants will be equipped to implement innovative strategies that enhance production and ensure sustainable development in their operations.

Course Objectives:

By the end of the program, participants will be able to:

- Gain advanced knowledge in the characterization of gas condensate reservoirs.
- Utilize reservoir simulation tools for effective management and forecasting.
- Implement production optimization techniques specific to gas condensate.
- Develop integrated management strategies that enhance economic performance.
- Explore future trends and technologies impacting gas condensate reservoir management.

Who Should Attend?

This course is intended for :-

- Reservoir engineers and geologists specializing in gas condensate fields.
- Production and operations managers in the oil and gas industry.
- Data analysts and technical professionals involved in reservoir modeling.
- Environmental and sustainability specialists in energy operations.

Course Outline:

Day 1: Advanced Reservoir Characterization

- Detailed geological studies of gas condensate reservoirs
- Advanced petrophysical analysis and its implications for management
- Use of seismic data and reservoir mapping techniques
- Integrating multi-disciplinary data for comprehensive reservoir understanding

Day 2: Reservoir Simulation and Modeling

- Overview of simulation software and tools for gas condensate reservoirs
- Building and calibrating reservoir models for predictive analysis
- History matching and its importance in reservoir management

Day 3: Production Optimization Techniques

- Advanced production techniques specific to gas condensate fields
- Gas lift and other artificial lift methods for enhanced recovery
- Managing condensate banking and phase behavior during production

Day 4: Integrated Reservoir Management Strategies

- Best practices for an integrated approach to reservoir management
- Stakeholder engagement and interdisciplinary collaboration
- Economic assessments and performance metrics for decision-making
- Case studies of successful integrated management in gas condensate fields

Day 5: Future Trends and Technologies

- Emerging technologies in gas condensate reservoir management
- The role of digitalization and automation in optimizing operations
- Environmental and sustainability considerations in reservoir management
- Future challenges and opportunities in gas condensate fields

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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 Questionaires
- Group Work

Course Fees:

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

Course Certificate:

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

Course Timings:

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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