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Course Name

Integrated Reservoir Management (PBM50)

Sector Name

Oil, Gas and Chemical

Document Type

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Integrated Reservoir Management (PBM50)

Course Introduction

Integrated Reservoir Management

Integrated Reservoir Management (IRM) is essential for maximizing hydrocarbon recovery and ensuring efficient, sustainable field development. It involves combining geological, geophysical, petrophysical, and engineering data to create effective strategies for reservoir development and management. A well-integrated approach improves decision-making, enhances production, and minimizes operational risks. Understanding IRM concepts and practices is critical for optimizing reservoir performance and achieving long-term production goals.

This training program provides a comprehensive understanding of Integrated Reservoir Management. Each day focuses on a key topic, combining theory with practical exercises and case studies. Participants will learn how to integrate multidisciplinary data, apply advanced analysis techniques, and develop strategies to improve reservoir performance. The program also includes interactive discussions to enhance problem-solving and decision-making skills



This course is designed to be interactive and participatory, and includes various learning tools to enable the participants to function effectively and efficiently. The course will use sessions, exercises, case applications, and presentations about proven-by-practice methods, new insights, and ideas about the topic and its effects in the corporate world.

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Integrated Reservoir Management (PBM50)

Target Audience

- ✓ Reservoir and petroleum engineers
- ✓ Geoscientists and field development specialists
- ✓ Production and operations engineers
- ✓ Asset managers in oil and gas
- ✓ E&P professionals optimizing reservoir performance

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Learning Objectives

- ✓ Understand the fundamentals of Integrated Reservoir Management.
- ✓ Learn techniques for integrating multidisciplinary reservoir data.
- ✓ Gain skills in building and analyzing reservoir models.
- ✓ Develop strategies for optimizing production and enhancing recovery.
- ✓ Apply best practices for sustainable and efficient reservoir management.

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Course Outline

✓ 01 Day One

Introduction to Integrated Reservoir Management

- ✓ Definition and importance of IRM.
- ✓ Key components of reservoir management.
- ✓ Understanding the reservoir lifecycle.
- ✓ Roles of geology, geophysics, and engineering in IRM.
- ✓ Data types and sources for reservoir management.
- ✓ Identifying challenges in integrating reservoir data.
- ✓ Case studies highlighting the importance of IRM.

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Course Outline

✓ 02 Day Two

Data Integration and Interpretation

- ✓ Techniques for integrating geological, geophysical, and petrophysical data.
- ✓ Using seismic data for reservoir characterization.
- ✓ Interpreting well logs and core data.
- ✓ Data validation and quality control methods.
- ✓ Building integrated databases for analysis.
- ✓ Overcoming data integration challenges.
- ✓ Practical exercises on data interpretation and integration.

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Course Outline

✓ 03 Day Three

Reservoir Modeling and Simulation

- ✓ Introduction to reservoir modeling concepts.
- ✓ Building static and dynamic reservoir models.
- ✓ Using software tools for simulation.
- ✓ Techniques for history matching and model calibration.
- ✓ Analyzing model results for decision-making.
- ✓ Identifying uncertainties in reservoir models.
- ✓ Case studies on successful reservoir modeling.

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Course Outline

✓ 04 Day Four

Production Optimization and Enhanced Recovery

- ✓ Techniques for optimizing production in different reservoir types.
- ✓ Enhanced Oil Recovery (EOR) methods and applications.
- ✓ Managing water and gas injection processes.
- ✓ Monitoring reservoir performance using real-time data.
- ✓ Identifying and mitigating production bottlenecks.
- ✓ Strategies for extending reservoir life.
- ✓ Practical exercises on production optimization.

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Course Outline

✓ 05 Day Five

Sustainable Reservoir Management and Future Trends

- ✓ Principles of sustainable reservoir management.
- ✓ Managing environmental risks in reservoir operations.
- ✓ Using digital technologies for efficient management.
- ✓ Future trends in IRM and technological advancements.
- ✓ Best practices for continuous improvement.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 8, 2026	June 12, 2026	5 days	4250.00 \$	UAE , Dubai
Aug. 17, 2026	Aug. 21, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 18, 2027	Jan. 22, 2027	5 days	4950.00 \$	England , London
Nov. 8, 2026	Nov. 12, 2026	5 days	4250.00 \$	KSA , Riyadh

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