**TRAINING TITLE**
**APPLIED RESERVOIR ENGINEERING AND MANAGEMENT**

**Training Duration**
**5 days**

**Training Venue and Dates**

| DE343 | Applied Reservoir Engineering and Management | 5 | 15-19 Dec 2025 | $5,500 | DUBAI, UAE |
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**In any of the 4 or 5-star hotels. The exact venue will be informed later.**

**Training Fees**
- **$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch**

**Training Certificate**
**Define Management Consultants Certificate of course completion will be issued to all attendees.**

**TRAINING DESCRIPTION**
This course offers an in-depth understanding of reservoir engineering principles, with a focus on their practical application in reservoir management. It covers the key concepts in reservoir characterization, modeling, and optimization, equipping participants with the knowledge to assess reservoir performance and implement strategies to maximize hydrocarbon recovery. The course emphasizes modern reservoir management techniques and integrates them with production and field development plans to ensure sustainable and cost-effective reservoir exploitation.

**TRAINING OBJECTIVES**
**By the end of this course, participants will be able to:**
- Understand the fundamentals of reservoir engineering and management.
- Learn reservoir characterization techniques, including well logging, core analysis, and seismic data interpretation.
- Develop skills to create and manage reservoir models for performance prediction.
- Explore enhanced oil recovery (EOR) methods and reservoir optimization techniques.
- Gain practical knowledge of reservoir management strategies to maximize hydrocarbon recovery.

*DMCT/OL/9/18(Rev3Dt:23/9/18)*

P.O BOX 45304
ABU DHABI, U.A.E

T +971 2 6264455
F +971 2 6275344

www.definetraining.com

1

## WHO SHOULD ATTEND?

- Reservoir engineers and geoscientists involved in the development and management of oil and gas reservoirs.
- Production engineers and operations professionals seeking to enhance their understanding of reservoir behavior.
- Engineers and technical personnel working in field development planning, reservoir modeling, and reservoir management.
- Individuals new to the field who wish to build a foundation in applied reservoir engineering.

## TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

## COURSE PROGRAM:

**Day 1: Introduction to Reservoir Engineering and Fundamentals**

- Overview of reservoir engineering and its role in hydrocarbon recovery.
- Reservoir properties: Porosity, permeability, fluid saturation, and pressure.
- Types of reservoirs: Conventional vs. unconventional.
- Reservoir drive mechanisms: Water drive, gas cap drive, and gravity drainage.

**Day 2: Reservoir Characterization and Data Integration**

- Well logging techniques and interpretation.
- Core analysis and its impact on reservoir modeling.
- Seismic data and its role in reservoir characterization.
- Integration of geological, geophysical, and production data for reservoir modeling.

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**Day 3: Reservoir Modeling and Simulation**

- Building and calibrating reservoir models.
- Numerical simulation techniques for reservoir performance prediction.
- History matching and uncertainty analysis.
- Application of reservoir models in field development planning.

**Day 4: Reservoir Management and Performance Monitoring**

- Well testing methods and their application in reservoir management.
- Pressure maintenance and reservoir surveillance.
- Reservoir management strategies: Field development plans, infill drilling, and production forecasting.
- Techniques for monitoring and optimizing reservoir performance.

**Day 5: Enhanced Oil Recovery (EOR) and Reservoir Optimization**

- Overview of EOR techniques: Waterflooding, gas injection, and chemical methods.
- Application of EOR to maximize recovery and improve reservoir performance.
- Reservoir optimization strategies: Pressure management, infill drilling, and artificial lift techniques.
- Environmental considerations and economic evaluation of reservoir management strategies.

**NOTE:**
**Pre-& Post Tests will be conducted.**
**Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.**

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