

Location: Taaeen/ ADNOC

Date: April 2025

Duration: 5 Days

Fee: English

Course Title: Advanced Carbonate Reservoir Characterization and Modelling

Learning Objectives:

- Evaluate carbonate reservoirs using advanced characterization methods.
- Apply geological and geophysical models to enhance reservoir understanding.
- Optimize reservoir performance through integrated modeling.

Target Audience:

- Geologists and geophysicists
- Petroleum and reservoir engineers
- Exploration and production professionals

Daily Course Outline:

Day 1: Introduction to Carbonate Reservoirs

- Fundamentals of carbonate reservoir geology
- Depositional environments and diagenesis

Day 2: Petrophysical Characterization

- Core analysis and log interpretation in carbonate reservoirs
- Porosity, permeability, and fluid flow characteristics

Day 3: Geophysical Methods in Carbonate Reservoirs

- Seismic interpretation techniques
- Rock physics and seismic inversion

Day 4: Reservoir Modelling and Simulation

- Building static and dynamic models
- Uncertainty analysis in carbonate reservoir models

Day 5: Case Studies and Best Practices

- Case studies of carbonate reservoirs worldwide
- Hands-on modelling exercises

