

GLOBAL EXPERTS INSTITUTE FOR TRAINING.
ISO 9001-2008 TRAINING PROVISION CERTIFIED

Integrated Reservoir Characterization and Development Planning

Schedule Dates:

Start Date	End Date	Place
17 Aug 2025	21 Aug 2025	Istanbul - Ramada Plaza by Wyndham Istanbul

Program Introduction:

This course provides a comprehensive understanding of how to integrate geological, geophysical, petrophysical, and engineering data for effective reservoir characterization and optimized development planning.

Participants will learn how multidisciplinary data is used to construct reservoir models that drive key development decisions. The course emphasizes teamwork and collaboration between geoscientists and engineers in the field development lifecycle.

Program Objectives:

- ✓ Understand the fundamentals of integrated reservoir characterization.
- ✓ Interpret and integrate seismic, log, core, and production data.
- ✓ Develop robust static and dynamic reservoir models.
- ✓ Identify key reservoir uncertainties and reduce risk in field development.
- ✓ Apply integrated workflows to design efficient field development plans.
- ✓ Collaborate effectively within multidisciplinary teams.

Who should attend?

- Reservoir engineers
- Development geologists
- Petrophysicists
- Geophysicists
- Production engineers
- Team leaders involved in reservoir studies or field development planning

Program Outlines

Day One

- Introduction to Integrated Reservoir Studies
- Geological Framework and Stratigraphic Concepts
- Structural Mapping and Fault Interpretation
- Sedimentology and Depositional Environments
- Seismic Interpretation for Reservoir Characterization

Day Two

- Petrophysical Log Analysis Basics
- Core Data and Rock Typing
- Electrofacies and Lithofacies Classification
- Reservoir Zonation and Layering
- Well Correlation Techniques

Day Three

- Mapping of Reservoir Properties (Porosity, Permeability, etc.)
- Volumetric Estimation and STOIP/GOIP Calculations
- Building Static Geocellular Models
- Introduction to Dynamic Modeling and Simulation
- Fluid Contacts and Reservoir Fluid Properties

Day Four

- Integration of Pressure and Production Data
- Data Uncertainty and Sensitivity Analysis
- History Matching Principles
- Well Placement and Drilling Target Optimization
- Production Forecasting and Recovery Factors

Day Five





- Field Development Planning Concepts
- Case Studies from Oil & Gas Fields
- Using Software for Reservoir Modeling (e.g., Petrel, Eclipse)
- Multidisciplinary Team Collaboration Exercises
- Final Workshop: Build & Present a Field Development Plan

Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

Cost Quotation in Kuwaiti Dinars

The total cost includes:

-  Instructor(s) expenses
-  Training materials
-  Certification
-  Lunch Included

Total Cost: 1400 KD per Participant
(One Thousand Four Hundred Kuwaiti Dinar)