



Carbonate Petrophysics

Course Introduction:

- Overview of carbonate petrophysics and its significance in the petroleum industry.
- Objectives of the training program.
- Importance of understanding carbonate reservoirs for exploration and production.

Course Objectives:

Upon the successful completion of this course, each participant will be able to:-

- Understand the geological formation of carbonate rocks.
- Learn the petrophysical properties of carbonate reservoirs.
- Explore methods for evaluating and characterizing carbonate formations.
- Gain skills in data analysis and interpretation related to carbonate petrophysics.
- Discuss case studies and applications in real-world scenarios.

Who Should Attend?

- Geologists and petrophysicists
- Petroleum engineers
- Reservoir engineers
- Industry professionals involved in exploration and production

Course Outline:

Day 1: Introduction to Carbonate Geology

- Overview of carbonate rocks: types and formation processes.
- Geological settings of carbonate reservoirs (platforms, reefs, and basins).
- Diagenesis and its impact on petrophysical properties.

Day 2: Petrophysical Properties of Carbonates

- Key petrophysical properties: porosity, permeability, water saturation.
- Methods for measuring and interpreting these properties.
- Influence of grain size, texture, and mineralogy on petrophysical characteristics.

Day 3: Evaluation and Characterization Techniques

- Core analysis: techniques and best practices.
- Well logging methods specific to carbonates (e.g., nuclear, resistivity, sonic).
- Seismic techniques for carbonate reservoir characterization.

Day 4: Data Analysis and Interpretation

- Integration of core, log, and seismic data.
- Use of software tools for petrophysical analysis and modeling.
- Case studies highlighting successful carbonate reservoir evaluations.

Day 5: Applications and Future Trends

- Challenges in carbonate reservoir development and management.
- Advances in technology and methodologies in carbonate petrophysics.
- Discussion on sustainability and environmental considerations in carbonate exploration.

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 Questionnaires
- Group Work
- Discussion
- Presentation



Course Certificate:

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

Course Fees:

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

Course Timings:

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

