Learning Objectives:

- Understand the complexities of tight reservoirs and their petrophysical properties.
- Apply advanced logging and core analysis techniques.
- Optimize recovery strategies for tight formations.

Target Audience:

- Petroleum engineers and geoscientists
- Reservoir engineers and petrophysicists
- Unconventional resource specialists

Daily Course Outline:

Day 1: Introduction to Tight Reservoirs

- Characteristics and challenges of tight reservoirs
- Reservoir fluid and rock interactions
- Key differences between conventional and unconventional reservoirs

Day 2: Petrophysical Data Acquisition & Interpretation

- Advanced core and log analysis techniques
- Evaluating porosity, permeability, and saturation
- Data integration for reservoir characterization

Day 3: Specialized Logging Techniques & Reservoir Modeling

- NMR and dielectric logging applications
- Formation evaluation in unconventional reservoirs
- Integration of petrophysical data with reservoir simulation models

Day 4: Performance Analysis & Case Studies

- Production forecasting and optimization strategies
- Case studies from global tight reservoir projects
- Best practices and lessons learned
- Course wrap-up and Q&A