Formation evaluation

14 – 25 March 2027
Online



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Introduction

Welcome to the Advanced Formation Evaluation Course, a comprehensive program designed to provide participants with a modern and advanced understanding of formation evaluation in the oil and gas industry. This course will explore the latest formation evaluation techniques, technologies, and best practices used to assess reservoir properties, hydrocarbon potential, and optimize well placement and production strategies. Participants will gain in-depth knowledge of advanced logging tools, interpretation methods, and data integration techniques to make informed decisions for reservoir characterization and formation management.

Course Objectives

By the end of this course, participants will:

- Gain a comprehensive understanding of the principles and techniques used in formation evaluation.
- Learn about the latest advancements in logging tools and technologies for efficient data acquisition.
- Develop advanced interpretation skills to extract valuable information from logging data.
- Acquire the ability to integrate formation evaluation data with other subsurface data for robust reservoir characterization.
- Enhance their ability to evaluate reservoir properties, fluid types, and hydrocarbon potential using advanced methods.
- Learn how to optimize well placement, completion strategies, and production plans based on formation evaluation results.
- Improve critical thinking and problem-solving abilities to address complex formation evaluation challenges.
- Foster effective communication and collaboration between formation evaluation specialists and other stakeholders in the oil and gas industry.

Course Outlines

Day 1: Introduction to Formation Evaluation

- Overview of formation evaluation and its significance in reservoir characterization.
- Key objectives and challenges in formation evaluation.
- Introduction to modern formation evaluation methods and technologies.



Day 2: Logging Tools and Data Acquisition

- Advanced logging tools and sensors for data acquisition.
- Logging while drilling LWD and wireline logging techniques.
- Quality control and assurance in logging data acquisition.

Day 3: Petrophysical Analysis and Interpretation

- Petrophysical properties and their significance in formation evaluation.
- Interpretation techniques for porosity, permeability, and saturation analysis.
- Advanced interpretation methods for complex lithologies and hydrocarbon-bearing formations.

Day 4: Integration of Formation Evaluation Data

- Integrating logging data with seismic and other subsurface data.
- Reservoir modeling using formation evaluation data.
- Uncertainty and risk analysis in formation evaluation.

Day 5: Advanced Reservoir Characterization

- Reservoir property estimation using advanced formation evaluation techniques.
- Fluid typing and identification of hydrocarbon zones.
- Evaluation of reservoir heterogeneity and compartmentalization.

Day 6: Well Placement and Geosteering

- Formation evaluation for well placement optimization.
- Geosteering techniques for accurate wellbore positioning.
- Real-time formation evaluation for geosteering decisions.

Day 7: Production Optimization Strategies

- Formation evaluation for production optimization.
- Identification of bypassed hydrocarbon zones.
- Evaluation of reservoir connectivity and flow dynamics.

Day 8: Advanced Interpretation Tools and Software

- Introduction to advanced formation evaluation software and tools.
- Case studies and practical exercises using interpretation software.
- Data visualization and integration for effective interpretation.



Day 9: Case Studies and Practical Exercises

- Real-world case studies highlighting formation evaluation challenges and solutions.
- Hands-on exercises using formation evaluation data and interpretation techniques.

Day 10: Emerging Trends and Future Outlook

- Emerging technologies and trends in formation evaluation.
- Industry challenges and opportunities in the future.
- Recap and course conclusion.

Why Attend this Course: Wins & Losses!

- Gain a thorough understanding of what is formation evaluation and its critical role in the oil and gas industry.
- Learn formation evaluation techniques and methods that optimize reservoir development and production strategies.
- Understand the benefits of formation evaluation for accurate reservoir characterization and hydrocarbon potential assessment.
- Develop skills to design a formation evaluation plan and implement effective formation evaluation strategies.
- Gain expertise in integrating formation evaluation data with other subsurface data for comprehensive analysis.
- Learn how formation management and advanced evaluation contribute to optimal well placement and hydrocarbon recovery.
- Enhance your ability to address complex geological challenges using cutting-edge formation evaluation methods.
- Prepare for certification and advance your career with practical formation evaluation training and tools.

Conclusion

By the end of this course, participants will have gained advanced skills in formation evaluation, enabling them to make informed decisions for reservoir characterization and development. They will be equipped with the knowledge to optimize well placement, improve production strategies, and address complex geological challenges using advanced formation evaluation methods and tools. Additionally, this course will enhance their ability to collaborate effectively with other stakeholders in the oil and gas industry, ensuring success in formation management.

Join us to master advanced formation evaluation techniques and drive success in reservoir development and production!

