



Advanced Wireline Applications

Course Duration : 5 days

Date : 09-Sep-2024 to 13-Sep-2024

Location : London, UK

Type of Participant : This advanced course is tailored for professionals in production, process, and drilling roles who need an in-depth understanding of wireline operations. It is ideal for experienced Wireline Operation Engineers, Wireline Engineers, Subsurface Engineers, Production Engineers, Field Support Personnel, Petroleum Engineers, Production Technologists, Geoscience Engineers, and Facility/Process Engineers seeking to enhance their expertise in advanced wireline techniques and applications.

Summary:

Many crucial oilfield operations today rely heavily on wireline, which consists of a strong, slender wire cable mounted on a powered reel. Wireline plays a key role in both completion and production phases. Field operators can use wireline for a range of tasks, from conducting basic downhole directional surveys to performing intricate gamma ray formation logs. It enables precise actions such as firing perforating charges at specific downhole locations, extracting stuck pipe, retrieving tools, and managing complex subsurface well pressure and flow controls.

This training course explores the evolution of wireline operations, details the wireline equipment, and covers the various tasks performed with this equipment, including diagnostic procedures, troubleshooting, and maintenance for completion and production.

Objective:

By the end of the course, participants will:



- Acquire in-depth knowledge of advanced wireline tools and techniques, including high-resolution logging, precise perforation methods, and complex well intervention strategies.
- Develop the skills to efficiently plan, execute, and troubleshoot advanced wireline operations to enhance production performance and reservoir management.
- Gain expertise in interpreting complex wireline data, integrating it with other reservoir information, and applying insights to optimize well performance and decision-making.
- Learn advanced methodologies for assessing and maintaining well integrity, including detection and resolution of downhole issues.
- Understand and apply advanced safety and risk management practices specific to wireline operations, ensuring compliance with industry standards and minimizing operational risks.
- Stay ahead of industry trends by exploring new and emerging technologies in wireline operations, such as automation and digital analytics.

This course aims to enhance participants' proficiency in advanced wireline applications, preparing them to handle complex challenges and contribute to the efficiency and safety of oil and gas operations.

Contents:



Day 1: Advanced Wireline Tools and Equipment

- Overview of high-resolution logging and specialized perforating tools.
- Detailed look at wireline components: caliper tools, resistivity, induction, and acoustic logging tools, and perforating guns.
- Discussion on the functionality and applications of these tools.

Day 2: Advanced Wireline Techniques and Operations

- Exploration of precision perforation methods and high-resolution formation logging.
- Analysis of real-world case studies involving complex wireline interventions.
- Discussion on techniques and operational best practices.

Day 3: Data Acquisition, Interpretation, and Integration

- Techniques for real-time data monitoring and advanced data logging.
- Detailed methods for data analysis and integration with seismic and reservoir data.
- Discussion on effective data interpretation and analysis tools.

Day 4: Well Integrity and Maintenance

- Techniques for assessing well integrity, including casing inspection and leak detection.
- Maintenance practices for equipment calibration and corrective measures.
- Discussion on strategies for maintaining well integrity.

Day 5: Safety, Emerging Technologies, and Industry Trends

- Safety protocols and risk management practices for wireline operations.
- Overview of emerging technologies such as automation and advanced sensors.



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- Discussion on industry trends, future directions, and innovations in wireline technology.
- **Course Review and Final Assessment**
 - Recap of key concepts and evaluation.