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Flow Assurance and Artificial Lift Strategy in Complex Fields

COURSE OVERVIEW

This course provides a comprehensive understanding of flow assurance principles and artificial lift strategies tailored for complex oil and gas fields, including deepwater, heavy oil, high-water-cut, and unconventional reservoirs. Participants will explore the technical, operational, and economic challenges associated with multiphase flow, hydrate formation, wax, asphaltene deposition, and scaling, alongside the selection and optimization of artificial lift systems to maintain production efficiency. Global case studies and best practices will be integrated to demonstrate how innovative solutions and integrated strategies can enhance field performance and extend asset life.

WHO SHOULD ATTEND?

The course is designed for petroleum engineers, production engineers, field development planners, facilities engineers, and operations managers involved in upstream oil and gas production. It is also valuable for technical specialists, project managers, and decision-makers seeking to strengthen their knowledge of production optimization, artificial lift design, and flow assurance in challenging environments.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Develop a solid understanding of flow assurance challenges in complex reservoirs.
- Gain practical knowledge of artificial lift methods and their applications in different field conditions.
- Learn how to evaluate, select, and optimize artificial lift systems to maximize production.
- Analyze real-world case studies to apply theoretical concepts in practical scenarios.
- Integrate flow assurance and artificial lift strategies for sustainable and cost-effective production.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Comprehensive coverage of flow assurance fundamentals and mitigation strategies.
- In-depth review of artificial lift technologies including ESP, gas lift, PCP, and hybrid systems.
- Focus on challenges in deepwater, unconventional, and high-viscosity oil environments.
- Practical case studies from complex field developments worldwide.
- Guidance on integrating flow assurance with production optimization for long-term field sustainability.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded