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FOR TRAINING

Petroleum Production Optimization & Artificial Lift Systems

Amman (Jordan)

8 - 12 March 2026

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Petroleum Production Optimization & Artificial Lift Systems

Code: OG28 From: 8 - 12 March 2026 City: Amman (Jordan) Fees: 4000 Pound

Introduction

Petroleum Production Optimization & Artificial Lift Systems is a critical field that drives efficiency, maximizes oil well productivity, and ensures sustainable operations. Success in production management depends on a combination of accurate performance analysis, selecting the right artificial lift method, and applying advanced strategies to control flow rates and manage pressures.

This course provides participants with in-depth knowledge and practical skills to evaluate production performance, identify operational challenges, and select the most suitable artificial lift system for different reservoir conditions. Through comprehensive training content, participants will learn to develop data-driven optimization plans, enhance operational efficiency, reduce costs, and ensure long-term production sustainability.

Course Objectives

- Understand advanced principles of petroleum production optimization.
- Analyze well performance and identify improvement opportunities.
- Learn the types of artificial lift systems and select the optimal one for each case.
- Apply production control and pressure management techniques.
- Use modeling and simulation tools to support technical decisions.
- Develop preventive maintenance strategies to extend equipment life.
- Evaluate the economic feasibility of different artificial lift methods.
- Align optimization strategies with organizational production goals.

Course Outlines

Day 1: Fundamentals of Production Optimization

- Introduction to petroleum production operations.
- Key factors influencing production efficiency.
- Defining and monitoring well performance indicators.
- Measuring and analyzing flow rates.
- The role of continuous monitoring in optimization.
- Case study: Enhancing production in a low-performing well.

Day 2: Artificial Lift Systems - Concepts and Types

- Definition and importance of artificial lift.
- Overview and comparison of main artificial lift methods.
- Criteria for selecting the right artificial lift system.
- Components and operation of electric submersible pumps ESP.
- Basics of sucker rod pump operations.
- Workshop: Selecting the optimal lift system for a specific well scenario.

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Day 3: Practical Applications and Control Techniques

- Adjusting pumping rates for maximum efficiency.
- Pressure management to reduce operational issues.
- Strategies for handling sand and associated gas.
- Enhancing artificial lift performance through data analytics.
- Assessing operational risks in artificial lift operations.
- Practical exercise: Analyzing operational data.

Day 4: Modeling and Technical Analysis

- Basics of production modeling.
- Using simulation software for artificial lift systems.
- Scenario analysis for operational decision-making.
- Assessing the impact of operational changes on production.
- Developing optimization plans based on analytical results.
- Case study: Simulation-based artificial lift optimization.

Day 5: Final Evaluation and Continuous Improvement Plans

- Comprehensive review of course concepts.
- Performance analysis after implementing optimization strategies.
- Long-term production improvement planning.
- Developing preventive maintenance programs for equipment.
- Final project: Creating a complete production optimization plan.
- Course closure and certification.

Why Attend this Course: Wins & Losses!

- Gain deep expertise in petroleum production optimization and artificial lift systems.
- Improve decision-making through data-driven analysis.
- Enhance operational efficiency while reducing costs.
- Extend equipment life through preventive maintenance.
- Learn about the latest artificial lift technologies.
- Strengthen strategic production planning capabilities.
- Apply practical skills in real-world scenarios.
- Earn a recognized professional certification.

Conclusion

The Petroleum Production Optimization & Artificial Lift Systems course offers a complete framework for maximizing production efficiency and sustainability by combining theoretical knowledge with practical applications. It equips participants with the tools and methodologies to choose the best artificial lift techniques, analyze performance, and implement well-structured optimization plans that unlock the full potential of oil wells.

By adopting these strategies, professionals not only improve technical performance but also enhance strategic decision-making to secure long-term success in competitive production environments.

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