



Consulting and Training | Reach New Heights

Course Name

Subsurface Production Operations & Artificial Lift Technologies

Sector Name

Oil, Gas and Chemical

Document Type

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Subsurface Production Operations & Artificial Lift Technologies

Course Introduction

This program provides a practical understanding of subsurface production operations and the technologies used to maintain and optimize oil and gas well performance. It focuses on the relationship between reservoir behavior, well performance, production operations, and artificial lift systems.

Participants will explore the principles and applications of major artificial lift technologies, including Gas Lift, Electrical Submersible Pumps (ESP), Progressive Cavity Pumps (PCP), and other commonly used systems. The program also addresses artificial lift selection, operating parameters, performance monitoring, troubleshooting, and optimization.

Through technical case studies and practical production scenarios, participants will develop the ability to identify production challenges, assess artificial lift performance, and support informed decisions aimed at improving well productivity, operational reliability, and overall production efficiency

Subsurface Production Operations & Artificial Lift Technologies

Target Audience

- ✓ Petroleum and Production Engineers.
- ✓ Reservoir Engineers.
- ✓ Well Completion and Well Intervention Engineers.
- ✓ Artificial Lift Engineers and Specialists.
- ✓ Production Operations Engineers and Supervisors.
- ✓ Well Performance Engineers.
- ✓ Petroleum Engineers involved in production optimization.
- ✓ Oil and Gas Asset and Field Engineers.
- ✓ Operations and Maintenance Professionals supporting production systems.
- ✓ Technical professionals involved in artificial lift selection and optimization.
- ✓ Professionals seeking to strengthen their knowledge of subsurface production and artificial lift technologies.

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Learning Objectives

- ✓ Understand the fundamentals of subsurface production operations and their role in optimizing hydrocarbon recovery.
- ✓ Explain the key principles governing oil and gas well production and reservoir performance.
- ✓ Analyze well performance and identify factors affecting production rates and well productivity.
- ✓ Understand the interaction between reservoir, wellbore, and surface production systems.
- ✓ Identify common production challenges and their impact on well performance.
- ✓ Understand the principles, applications, and selection criteria of artificial lift systems.
- ✓ Compare major artificial lift technologies and determine their suitability for different well conditions.
- ✓ Understand the operating principles of Electrical Submersible Pumps (ESP), Gas Lift, Progressive Cavity Pumps (PCP), and other artificial lift systems.
- ✓ Evaluate key operating parameters that influence artificial lift performance and efficiency.
- ✓ Identify common artificial lift problems, operating challenges, and potential optimization opportunities.
- ✓ Apply appropriate approaches for artificial lift selection, monitoring, troubleshooting, and performance optimization.

- ✓ Understand production surveillance techniques used to monitor well and artificial lift performance.
- ✓ Develop practical strategies to improve production efficiency, reliability, and asset performance.

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Course Outline

✓ Day 01

Reservoir-to-Well Production Fundamentals

- ✓ Subsurface Production System
- ✓ Understanding reservoir-to-well production relationships
- ✓ Examining pressure behavior across the production system
- ✓ Understanding fluid properties and flow behavior
- ✓ Identifying reservoir and well conditions affecting production
- ✓ Understanding inflow and outflow relationships
- ✓ Connecting subsurface conditions with surface production performance

Well Performance and Production Constraints

- ✓ Understanding well productivity and deliverability
- ✓ Identifying production restrictions and bottlenecks
- ✓ Analyzing pressure and rate relationships
- ✓ Recognizing changing well performance
- ✓ Distinguishing reservoir-related and well-related constraints
- ✓ Assessing factors affecting sustainable production



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Course Outline

✓ Day 02

Production Surveillance and Well Diagnosis

- ✓ Production Surveillance Techniques
- ✓ Monitoring production rates and well operating conditions
- ✓ Interpreting pressure and temperature information
- ✓ Analyzing production trends over time
- ✓ Using well performance indicators
- ✓ Identifying deviations from expected behavior
- ✓ Integrating surveillance information into production decisions

Well Performance Diagnosis

- ✓ Identifying causes of declining well performance
- ✓ Distinguishing reservoir and completion-related problems
- ✓ Recognizing flow assurance and fluid-related constraints
- ✓ Interpreting production anomalies
- ✓ Evaluating intervention requirements
- ✓ Establishing structured approaches to well diagnosis

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Course Outline

✓ Day 03

Artificial Lift Technologies

- ✓ Artificial Lift Selection and Design Considerations
- ✓ Understanding the role of artificial lift in production systems
- ✓ Evaluating reservoir and well conditions for lift selection
- ✓ Comparing artificial lift technology characteristics
- ✓ Assessing production requirements and operating constraints
- ✓ Considering well geometry and fluid properties
- ✓ Selecting lift approaches according to technical requirements

Major Artificial Lift Systems

- ✓ Understanding sucker rod pumping systems
- ✓ Examining electrical submersible pump applications
- ✓ Understanding gas lift principles and configurations
- ✓ Examining progressive cavity pump applications
- ✓ Comparing advantages and limitations of lift technologies
- ✓ Matching artificial lift systems to well operating conditions



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Course Outline

✓ Day 04

Artificial Lift Troubleshooting and Optimization

- ✓ Artificial Lift Performance Diagnosis
- ✓ Identifying common artificial lift performance problems
- ✓ Interpreting operating data and performance indicators
- ✓ Diagnosing mechanical and operational issues
- ✓ Recognizing gas, solids, fluid, and pressure-related problems
- ✓ Evaluating abnormal lift-system behavior
- ✓ Establishing systematic troubleshooting approaches

Artificial Lift Optimization

- ✓ Optimizing lift operating parameters
- ✓ Balancing production targets with equipment limitations
- ✓ Evaluating lift efficiency and operating conditions
- ✓ Adjusting lift strategies as well conditions change
- ✓ Integrating production surveillance with lift optimization
- ✓ Identifying opportunities to improve well performance



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Course Outline

✓ Day 05

Integrated Production Optimization and Lift Lifecycle Management

- ✓ Integrated Well and Artificial Lift Optimization
- ✓ Integrating reservoir, well, and artificial lift information
- ✓ Evaluating production opportunities across the well system
- ✓ Coordinating subsurface and production engineering decisions
- ✓ Optimizing lift performance under changing reservoir conditions
- ✓ Balancing production gains with operating constraints
- ✓ Supporting sustainable well performance through integrated analysis

Artificial Lift Lifecycle Strategy

- ✓ Planning artificial lift requirements across well lifecycle stages
- ✓ Evaluating lift changes as reservoir conditions evolve
- ✓ Managing equipment reliability and intervention requirements
- ✓ Assessing replacement, upgrade, and optimization options
- ✓ Integrating technical and economic considerations into lift decisions
- ✓ Developing lifecycle strategies for sustainable artificial lift performance



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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 15, 2026	Nov. 19, 2026	5 days	4250.00 \$	Egypt , Cairo

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