MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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ARTIFICIAL LIFT SYSTEMS

"Maximize Oil Production Efficiency Through Smart Selection, Design, and Optimization of Artificial Lift Systems"

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Artificial Lift Systems are essential for enhancing oil and gas production, particularly when reservoir pressure is no longer sufficient to push fluids to the surface. Effective artificial lift design and management are key to optimizing production rates, improving equipment performance, and extending the economic life of wells.

This Advanced Certificate in Artificial Lift Systems course provides participants with comprehensive technical knowledge and practical understanding of the major artificial lift methods used in the oil and gas industry, including Electrical Submersible Pumps (ESP), Gas Lift, Rod Pumping, Progressive Cavity Pumps (PCP), and Hydraulic Systems.

Participants will learn to analyze reservoir performance, select suitable lift methods, and optimize system efficiency while considering operational, economic, and environmental factors.

Objectives

By the end of this course, participants will be able to:

- Understand the principles and functions of different artificial lift systems
- Evaluate reservoir and well conditions to select appropriate lift methods
- Design, operate, and troubleshoot artificial lift equipment effectively
- Compare the performance and cost-effectiveness of various lift techniques
- Analyze production data and optimize lift performance for maximum output
- Apply digital monitoring tools for predictive maintenance and efficiency tracking
- Manage artificial lift operations with safety and reliability standards
- Integrate automation and control systems in artificial lift operations

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Why Attend

This course is designed for professionals involved in well production, field operations, and artificial lift management. Participants will gain the knowledge and confidence to make informed decisions about lift selection, system design, and optimization strategies.

The training provides a blend of theoretical understanding and real-world application, helping participants reduce production downtime, extend equipment life, and improve field profitability.

Target Audience

This program is ideal for:

- Petroleum and Production Engineers
- Well and Reservoir Engineers
- Field Operations and Maintenance Supervisors
- Artificial Lift Specialists and Technicians
- Drilling and Completion Engineers
- Asset and Production Managers
- Anyone involved in oilfield production optimization

Individual Benefits

- Gain detailed knowledge of artificial lift types, components, and design principles
- Learn how to analyze well performance and choose optimal lift methods
- Improve ability to troubleshoot and maintain lift systems efficiently
- Enhance career opportunities in oil production and field engineering
- Build expertise in advanced lift monitoring and automation techniques
- Strengthen technical decision-making and productivity improvement skills

Organizational Benefits

- Optimize oil production efficiency and reduce operational costs
- Extend the life of wells through effective lift management
- Minimize downtime and equipment failures through proactive maintenance
- Improve safety and reliability in production operations
- Enhance production forecasting and field performance monitoring
- Develop in-house expertise in artificial lift technology and management

Instructional Methodology

This course is delivered through a highly practical and interactive learning approach that includes:

- Instructor-led technical presentations
- Real-life field examples and case studies
- Equipment demonstrations and design simulations
- Problem-solving and troubleshooting workshops
- Group discussions and scenario-based exercises
- Continuous evaluation and feedback sessions

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Course Outline

Module 1: Introduction to Artificial Lift Systems and Production Optimization

Module 2: Reservoir and Well Performance Fundamentals

Module 3: Overview of Artificial Lift Methods – ESP, Gas Lift, Rod Pumping, PCP, Hydraulic Systems

Module 4: Lift System Selection and Design Criteria

Module 5: Electrical Submersible Pump (ESP) Design, Operation, and Troubleshooting

Module 6: Gas Lift Systems – Components, Design, and Optimization

Module 7: Beam and Rod Pumping Systems – Mechanics and Performance

Module 8: Progressive Cavity and Hydraulic Lift Systems – Applications and Limitations

Module 9: Automation, Monitoring, and Control in Artificial Lift Operations

Module 10: Case Studies and Capstone Project – Lift System Optimization Plan

Certification

Upon successful completion, participants will receive the Advanced Certificate in Artificial Lift Systems, acknowledging their ability to design, operate, and optimize lift systems to enhance oil recovery and production efficiency.

This certification demonstrates a solid understanding of artificial lift technologies and their practical applications in modern oilfield operations.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**