



Consulting and Training | Reach New Heights

Course Name

Oil & Gas Artificial Lift (ESP)

Sector Name

Oil, Gas and Chemical

Document Type

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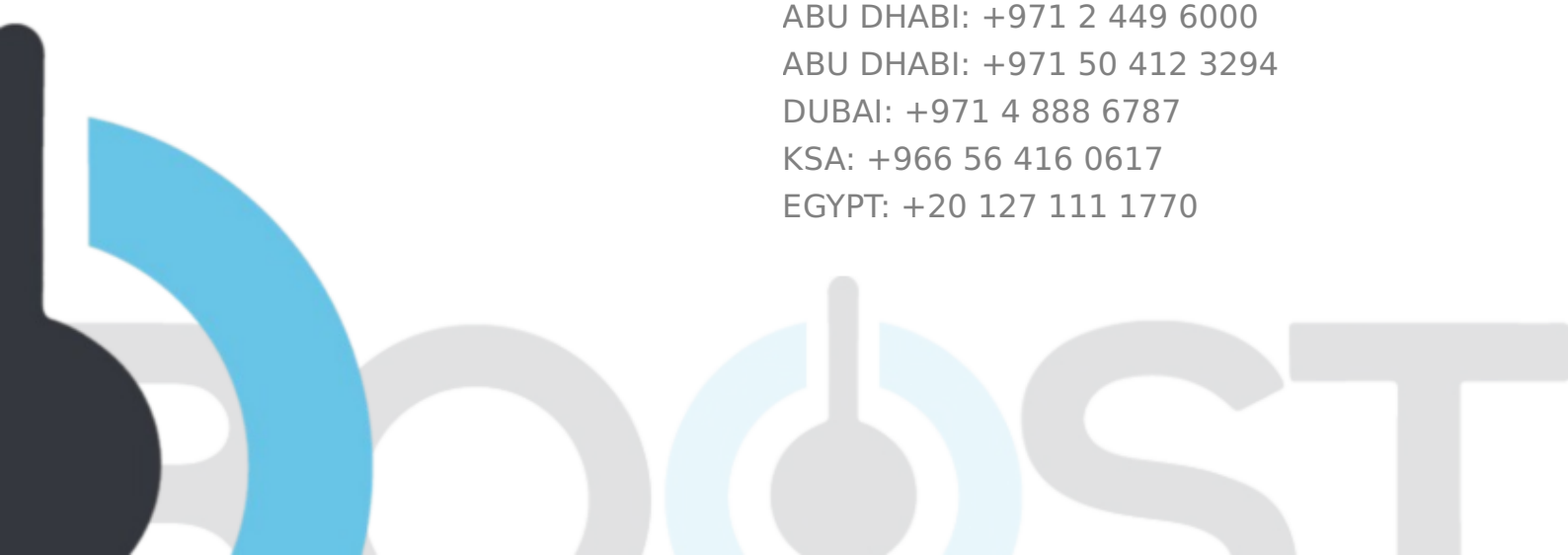
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Oil & Gas Artificial Lift (ESP)

Course Introduction

ESP systems

Artificial Lift, especially Electric Submersible Pumps (ESP), plays a key role in boosting oil production from wells with low reservoir pressure. ESP systems are widely used for their efficiency, high flow rates, and ability to operate in challenging environments.

Understanding how to select, install, and maintain ESP systems is crucial for maximizing production and reducing downtime. Skilled professionals can optimize performance and extend the life of ESP systems, ensuring more reliable operations.

This training program covers essential aspects of ESP systems in oil and gas operations. The program includes fundamentals, design considerations, installation, operations, troubleshooting, and maintenance strategies. Each day focuses on a core topic with practical subtopics for hands-on learning. Participants will engage in real-world case studies, discussions, and interactive exercises to strengthen their knowledge and skills.

Training Course Methodology



This course is designed to be interactive and participatory, and includes various learning tools to enable the participants to function effectively and efficiently. The course will use sessions, exercises, case applications, and presentations about proven-by-practice methods, new insights, and ideas about the topic and its effects in the corporate world.

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Oil & Gas Artificial Lift (ESP)

Target Audience

- ✓ Field Operators and Technicians
- ✓ Production Engineers
- ✓ Petroleum Engineers
- ✓ Maintenance Engineers
- ✓ Operations Managers
- ✓ Oilfield Service Providers
- ✓ Artificial Lift Specialists
- ✓ Reservoir Engineers
- ✓ Drilling and Completion Engineers

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Oil & Gas Artificial Lift (ESP)

Learning Objectives

- ✓ Understand the basic principles and components of ESP systems.
- ✓ Learn how to design and select the right ESP for various well conditions.
- ✓ Gain skills in proper installation and start-up procedures.
- ✓ Identify common operational challenges and troubleshooting methods.
- ✓ Develop effective maintenance practices to enhance system longevity.

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Course Outline

✓ **01 Day One**

Introduction to ESP Systems

- ✓ What is an ESP, and why is it important in artificial lift?
- ✓ Key components of an ESP system.
- ✓ How ESPs work in oil and gas wells.
- ✓ Common applications and benefits of ESP systems.
- ✓ Factors influencing ESP performance.
- ✓ Basic operating principles of ESPs.
- ✓ Safety considerations in ESP operations.

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Oil & Gas Artificial Lift (ESP)

Course Outline

✓ **02 Day Two**

Designing and Selecting ESP Systems

- ✓ Understanding well the conditions and production requirements.
- ✓ Criteria for selecting the right ESP system.
- ✓ Key design considerations for ESP components.
- ✓ Sizing pumps, motors, and cables.
- ✓ Impact of reservoir properties on ESP performance.
- ✓ Using software tools for ESP design.
- ✓ Cost considerations and economic analysis.

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Course Outline

✓ **03 Day Three**

Installation and Start-up Procedures

- ✓ Pre-installation checks and preparations.
- ✓ Step-by-step ESP installation process.
- ✓ Aligning and setting up ESP components.
- ✓ Electrical and control system setup.
- ✓ Initial start-up procedures and safety checks.
- ✓ Ensuring proper system alignment and performance.
- ✓ Common installation challenges and solutions.

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Course Outline

✓ **04 Day Four**

Operations and Troubleshooting

- ✓ Monitoring ESP performance indicators.
- ✓ Identifying signs of common ESP problems.
- ✓ Troubleshooting electrical and mechanical issues.
- ✓ Managing sand production and gas interference.
- ✓ Using data analysis for performance optimization.
- ✓ Conducting performance evaluations and adjustments.
- ✓ Case studies of troubleshooting in challenging conditions.

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Course Outline

✓ 05 Day Five

Maintenance and System Optimization

- ✓ Routine maintenance procedures for ESP systems.
- ✓ Best practices for extending ESP lifespan.
- ✓ Identifying wear and failure points early.
- ✓ Techniques for optimizing ESP performance.
- ✓ Planning for equipment replacement and upgrades.
- ✓ Documenting maintenance activities and performance data.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 11, 2027	Jan. 15, 2027	5 days	4950.00 \$	England , London
June 28, 2027	July 2, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 22, 2027	Aug. 26, 2027	5 days	4250.00 \$	Egypt , Cairo
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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