MERCURY

Pumping Systems & Well Stimulation Techniques in Oil & Gas

07 - 11 Jun 2027
London (UK)

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Pumping Systems & Well Stimulation Techniques in Oil & Gas

Ref.: 121520_1036129 **Date:** 07 - 11 Jun 2027 **Location:** London (UK) **Fees:** 5900 **Euro**

Introduction

This Pumping Systems & Well Stimulation Techniques in Oil & Gas course provides an understanding of pumping systems and well-stimulation operations in the oil and gas industry, with a focus on production enhancement and improved well performance. It explores the technical and operational principles behind efficient hydrocarbon extraction from subsurface reservoirs. Participants will gain insight into how pumping systems support continuous production under challenging reservoir conditions. The program explains how well stimulation techniques restore or enhance reservoir productivity. It emphasizes integrating surface and downhole technologies for optimized performance. Learners will understand, evaluate, and support modern oil and gas production systems effectively.

Targeted Groups

This Pumping Systems & Well Stimulation Techniques in Oil & Gas training targets professionals seeking knowledge and skills:

- Petroleum engineers working in upstream operations.
- Production engineers in oil and gas fields.
- Well operations technicians and field crew.
- Field supervisors in oil and gas operations.
- Drilling and completions engineers.
- Maintenance engineers in production facilities.
- HSE and safety professionals in the energy sector.
- Energy consultants and analysts.

Course Objectives

Participants will achieve the following objectives by completing the Pumping Systems & Well Stimulation Techniques in Oil & Gas course:

- Understand oil and gas well lifecycle and production systems for upstream oil and gas operations.
- Analyze reservoir behavior and production challenges affecting flow efficiency to support production optimization decisions.
- Evaluate artificial lift and pumping systems for optimized production in field applications and well performance.
- Identify suitable pump selection criteria and operational applications in real operational environments.
- Apply well-stimulation techniques, including acidizing and hydraulic fracturing fundamentals, to enhance recovery efficiency.
- Assess pumping operations for stimulation, including high-pressure systems and fluid-injection techniques, within integrated stimulation programs.
- Implement troubleshooting and safety practices to optimize production in upstream oil and gas systems.

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Targeted Competencies

Participants will gain the following competencies during the Pumping Systems & Well Stimulation Techniques in Oil & Gas program:

- Interpret reservoir and production system data for operational decision-making.
- Operate and evaluate pumping systems and artificial lift methods.
- Apply well stimulation techniques such as acidizing and hydraulic fracturing.
- Design pumping operations for high-pressure injection and fluid handling.
- Troubleshoot operational issues in pumping and stimulation systems.
- Implement safety and HSE standards in oil and gas field operations.
- Optimize production performance through integrated well-intervention strategies across upstream oil and gas production environments.

Studying Scenarios

In this Pumping Systems & Well Stimulation Techniques in Oil & Gas training, participants develop skills through the following scenarios:

- Analyzing well performance decline and selecting a pumping system.
- Evaluating stimulation design for low-permeability reservoirs.
- Troubleshooting high-pressure pumping issues during field operations.
- Ensuring safety compliance in intervention activities in oil and gas fields.

Course Content

Unit 1: Fundamentals of Well Operations & Production Systems

- Overview of oil & gas well lifecycle.
- Reservoir and production basics.
- Common production challenges and limitations.
- Role of pumping and stimulation in production enhancement.

Unit 2: Pumping Systems in Oil & Gas Wells

- Surface and downhole pumping systems.
- Artificial lift methods overview.
- Pump selection criteria and applications.
- Pump performance, efficiency, and optimization.

Unit 3: Well Stimulation Techniques

- Introduction to well stimulation.
- Acidizing matrix and fracture acidizing.
- Hydraulic fracturing fundamentals.
- Chemical treatments and sand control.
- Selecting appropriate stimulation methods.

Unit 4: Pumping Operations for Well Stimulation

- High-pressure pumping systems and equipment.

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- Fluid handling and injection techniques.
- Surface vs downhole considerations.
- Integration with slickline and intervention operations.

Unit 5: Troubleshooting, Safety & Production Optimization

- Common operational challenges and failures.
- Troubleshooting pumping and stimulation issues.
- Safety practices and HSE considerations.
- Production optimization strategies.
- Case studies and real-life applications.

Final Insights & Key Takeaways

Pumping systems and well stimulation techniques are essential drivers of production enhancement in modern oil and gas operations. Mastery of artificial lift, hydraulic fracturing, and operational troubleshooting ensures sustained well productivity and improved reservoir performance.

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Registration form on the :
Pumping Systems & Well Stimulation Techniques in Oil & Gas

code: 121520 **From:** 07 - 11 Jun 2027 **Venue:** London (UK) **Fees:** 5900 **Euro**

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