GLOBAL EXPERTS INSTITUTE FOR TRAINING.
ISO 9001-2008 TRAINING PROVISION CERTIFIED

# Stimulation Engineer Enhanced Recovery & Reservoir Treatment

## Schedule Dates:

| Start Date | End Date | Place |
|---|---|---|
| 25-Jan-2026 | 29-Jan-2026 | Italy - Rome |

## Program Introduction:

As global energy demand increases, the importance of maximizing hydrocarbon recovery from existing reservoirs has become critical. Stimulation engineering plays a pivotal role in enhancing oil and gas production through advanced reservoir treatment techniques. This training course, “Stimulation Engineer: Enhanced Recovery & Reservoir Treatment,” provides participants with a comprehensive understanding of the principles, technologies, and strategies used to improve reservoir performance and implement enhanced oil recovery (EOR) methods. The course combines theoretical foundations with practical case studies to ensure participants are prepared to design and execute efficient stimulation treatments.

## Program Objectives:

- ✓ Understand the fundamentals of reservoir stimulation and enhanced recovery.
- ✓ Explore various stimulation techniques including acidizing and hydraulic fracturing.
- ✓ Learn to evaluate candidate wells for stimulation and treatment.
- ✓ Analyze reservoir properties and their impact on stimulation strategy.
- ✓ Design stimulation programs tailored to specific reservoir conditions.
- ✓ Understand the selection and compatibility of stimulation fluids and additives.
- ✓ Evaluate the economic and technical performance of reservoir treatments.
- ✓ Ensure compliance with safety and environmental regulations during operations.

## Who should attend?

- Stimulation engineers and reservoir engineers
- Petroleum and production engineers
- Field development and asset managers
- Well completion and intervention specialists
- Technical service company personnel
- Oil & gas project planners and consultants

# Program Outlines

## *Day One*

- Introduction to Reservoir Stimulation and Enhanced Oil Recovery (EOR)
- Fundamentals of Reservoir Rock and Fluid Properties
- Types and Objectives of Stimulation Treatments
- Well Candidate Selection for Stimulation
- Matrix Acidizing: Principles, Design, and Execution

## *Day Two*

- Hydraulic Fracturing: Mechanics, Design, and Field Application
- Fracture Propagation and Reservoir Modeling
- Acid Systems and Additives for Carbonate and Sandstone Reservoirs
- Proppants: Types, Selection, and Placement
- Formation Damage and Methods for Remediation

## *Day Three*

- Compatibility of Stimulation Fluids with Formation Fluids
- Stimulation Equipment and Surface Operations
- Fluid Placement Techniques and Diversion Methods
- Water Shutoff and Selective Stimulation Methods
- Sand Control and Gravel Packing Techniques

## Day Four

- Introduction to Enhanced Oil Recovery (EOR) Techniques
- Chemical EOR: Polymers, Surfactants, and Alkaline Flooding
- Gas Injection Methods: $CO_2$, $N_2$, and Miscible Gas Recovery
- Thermal EOR Techniques: Steam Flooding and Cyclic Steam Stimulation
- Real-Time Monitoring and Evaluation of Stimulation Operations

## Day Five

- Post-Stimulation Evaluation and Production Analysis
- Safety Considerations and Environmental Best Practices
- Economic Evaluation and Optimization of Stimulation Treatments
- Field Case Studies: Lessons Learned from Global Applications
- Future Trends in Reservoir Stimulation and EOR Technologies

## Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

## Cost Quotation in Kuwaiti Dinars

**The total cost includes:**

- Instructor(s) expenses
- Training materials
- Certification

**Total Cost: 1800 KD per Participant**

( One Thousand Eight Hundred Kuwaiti Dinar )

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