



Consulting and Training | Reach New Heights

**Course Name**

# Advanced Sand Control Management and Technology

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**Sector Name**

Oil, Gas and Chemical

**Document Type**

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## Advanced Sand Control Management and Technology

### Course Introduction

#### Advanced Sand Control Management and Technology

Advanced sand control management and technology are essential for improving oil and gas production efficiency and protecting well integrity. Uncontrolled sand production can damage equipment, reduce output, and increase operational costs. Advanced techniques help minimize these risks, ensuring longer well life and consistent production. Understanding the latest technologies and strategies is key for effective sand control and improved operational performance.

This training program focuses on advanced sand control methods, from understanding sand production mechanisms to implementing and optimizing cutting-edge technologies. Each day covers a core topic with practical subtopics for hands-on learning. The program includes interactive discussions, real-world case studies, and practical exercises to help participants develop skills for effective sand control management.

#### 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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## Advanced Sand Control Management and Technology

### Target Audience

- ✓ Petroleum engineers
- ✓ Reservoir engineers
- ✓ Completion engineers
- ✓ Production engineers
- ✓ Field supervisors

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## Advanced Sand Control Management and Technology

### Learning Objectives

- ✓ Understand advanced concepts and mechanisms of sand production.
- ✓ Learn to select and apply modern sand control techniques.
- ✓ Gain skills in designing and implementing sand management strategies.
- ✓ Identify and solve complex sand-related challenges.
- ✓ Optimize sand control operations for improved production efficiency.

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## Advanced Sand Control Management and Technology

### Course Outline

#### ✓ **01 Day One**

##### **Understanding Advanced Sand Production Mechanisms**

- ✓ Review of basic sand production principles.
- ✓ Identifying complex causes of sand production in challenging reservoirs.
- ✓ Effects of reservoir properties on sand behavior.
- ✓ Understanding rock mechanics and failure mechanisms.
- ✓ Data analysis for predicting sand production.
- ✓ Evaluating sand production risks in high-pressure wells.
- ✓ Impact of operational practices on sand generation.

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### Course Outline

#### ✓ **02 Day Two**

##### **Modern Sand Control Techniques and Selection**

- ✓ Overview of advanced mechanical sand control systems.
- ✓ Innovations in chemical sand control methods.
- ✓ Selecting the right method for complex reservoirs.
- ✓ Design considerations for advanced sand control systems.
- ✓ Application of expandable sand screens and inflow control devices.
- ✓ Evaluating the economic feasibility of advanced techniques.
- ✓ Case studies on the successful implementation of modern methods.

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### Course Outline

#### ✓ **03 Day Three**

##### **Installation and Execution of Advanced Sand Control Systems**

- ✓ Pre-installation assessment and planning.
- ✓ Installation processes for advanced mechanical systems.
- ✓ Best practices for chemical sand treatment execution.
- ✓ Managing installation risks and challenges.
- ✓ Testing and validating system effectiveness.
- ✓ Troubleshooting installation problems.
- ✓ Safety measures for advanced system deployment.

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### Course Outline

#### ✓ **04 Day Four**

##### **Monitoring, Optimization, and Maintenance**

- ✓ Techniques for monitoring sand control performance.
- ✓ Using data analytics for optimization.
- ✓ Maintenance strategies to prolong system life.
- ✓ Identifying and correcting performance deviations.
- ✓ Integrating digital technologies for real-time monitoring.
- ✓ Reducing downtime through predictive maintenance.
- ✓ Best practices for long-term system efficiency.

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### Course Outline

#### ✓ 05 Day Five

##### **Advanced Troubleshooting and Future Technologies**

- ✓ Diagnosing complex sand production issues.
- ✓ Advanced troubleshooting methods for mechanical and chemical systems.
- ✓ Implementing corrective actions for recurring problems.
- ✓ Evaluating the success of troubleshooting measures.
- ✓ Emerging technologies and innovations in sand control.
- ✓ Sustainable practices in sand management.
- ✓ Strategies for continuous improvement and adaptation to new challenges.

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## Advanced Sand Control Management and Technology

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Feb. 1, 2027	Feb. 5, 2027	5 days	4950.00 \$	Spain , Madrid
June 29, 2026	July 3, 2026	5 days	4250.00 \$	UAE , Dubai
Sept. 20, 2026	Sept. 24, 2026	5 days	4250.00 \$	KSA , Riyadh
Dec. 14, 2026	Dec. 18, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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