MERCURY

Oil & Gas Pigging System Design Course

06 - 10 Jul 2025
Dubai (UAE)

Oil & Gas Pigging System Design Course

Ref.: 15688_320754 **Date:** 06 - 10 Jul 2025 **Location:** Dubai (UAE) **Fees:** 4500 **Euro**

Introduction:

This comprehensive Oil and Gas Pigging System Design Course is designed to provide an in-depth understanding of pigging systems used in the oil and gas industry. Pigging is critical for maintaining pipeline operations' integrity, efficiency, and safety.

In this Oil and Gas Pigging System Design course, participants will explore the principles and practices of designing effective pigging systems, including selecting pig types, design considerations for pigging facilities, and integrating pigging systems into pipeline operations.

The Oil and Gas Pigging System Design training participants, will gain the knowledge and skills to design and implement robust pigging solutions that enhance pipeline performance and reduce operational risks through detailed modules, real-world case studies, and practical insights.

Targeted Groups:

- Pipeline Engineers.
- Operations Managers.
- Maintenance Technicians.
- Project Engineers.
- Design Engineers.
- Asset Integrity Specialists.
- Process Engineers.
- Safety Officers.
- Oil & Gas Industry Consultants.

Course Objectives:

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

- Understand the principles and importance of pigging in pipeline operations.
- Learn to design effective pigging systems for various pipeline conditions.
- Identify and select appropriate pig types based on operational needs.
- Develop skills to integrate pigging systems into existing pipeline infrastructures.
- Apply best practices for pigging system maintenance and troubleshooting.
- Ensure compliance with industry standards and safety regulations.
- Analyze real-world case studies to improve design and operational strategies.

Targeted Competencies:

- Pigging System Design.
- Pipeline Integrity Management.
- Pig Selection and Application.
- Flow Assurance.
- System Integration.
- Operational Safety and Risk Management.
- Maintenance Planning.
- Troubleshooting and Problem Solving.
- Regulatory Compliance and Standards.

Course Content:

Unit 1: Introduction to Pigging Systems:

- Overview of pigging systems in the oil and gas industry.
- Definitions and terminology related to pigging.
- History and evolution of pigging technology.
- Types of pigs and their functions e.g., scraper pigs, gauge pigs.
- Importance of pigging for pipeline maintenance and safety.
- Applications and benefits of pigging in different pipeline scenarios.

Unit 2: Pigging System Design Principles:

- Fundamentals of designing pigging systems.
- Key design considerations and factors e.g., pipeline diameter, flow rates.
- Design criteria for pig launchers and receivers.
- Integration of pigging systems with existing pipelines.
- Selection criteria for pigging equipment and components.
- Impact of pipeline geometry and materials on design.

Unit 3: Pigging Equipment and Components:

- Detailed overview of pigging equipment e.g., launchers, receivers.
- Types and functions of different pigs e.g., cleaning, inspection, batch pigs.
- Material selection for pigging equipment.
- Installation and maintenance of pigging components.
- Safety features and operational controls of pigging equipment.
- Troubleshooting common issues with pigging equipment.

Unit 4: Operational Considerations and Best Practices:

- Procedures for pigging operations and workflow.
- Best practices for launching and receiving pigs.
- Handling and storage of pigs and pigging equipment.
- Monitoring and control during pigging operations.
- Techniques for optimizing pigging performance.
- Addressing and mitigating operational challenges and risks.

Unit 5: Case Studies and Practical Applications:

- Analysis of real-world pigging system designs.
- Case studies of successful and problematic pigging implementations.
- Lessons learned from industry examples and failures.
- Strategies for applying theoretical knowledge to practical situations.
- Evaluation of pigging system performance and effectiveness.
- Recommendations for improving pigging system designs based on case studies.

Registration form on the :
Oil & Gas Pigging System Design Course

code: 15688 **From:** 06 - 10 Jul 2025 **Venue:** Dubai (UAE) **Fees:** 4500 **Euro**

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