BLACKBIRD FOR TRAINING

Pipeline Pigging Operations and Maintenance Training

29 November – 3 December 2026
Cairo (Egypt)

UK Traininig
PARTNER



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Introduction

Pipeline pigging plays a vital role in maintaining the efficiency, integrity, and safety of oil, gas, and petrochemical transportation systems. This comprehensive training course provides participants with in-depth knowledge and practical skills required to plan, operate, and maintain pigging systems effectively and safely.

The program is designed for engineers, pipeline operators, and maintenance supervisors who are involved in the cleaning, inspection, and integrity management of pipeline systems. It combines theoretical understanding with hands-on applications to ensure that participants can perform pigging operations efficiently while minimizing downtime and risks.

By the end of the course, participants will be equipped with the technical expertise to manage pigging projects, analyze inspection data, and ensure continuous and reliable pipeline performance.

Course Objectives

By completing this training, participants will be able to:

- Understand the principles, purpose, and components of pipeline pigging systems.
- Operate pigging units safely and efficiently in various field conditions.
- Identify different types of pigs used for cleaning, inspection, and separation.
- Analyze inspection data to detect corrosion, deformation, and flow anomalies.
- Apply preventive maintenance strategies to reduce operational failures.
- Manage risk and emergency response during pigging activities.
- Develop and implement optimized pigging and maintenance plans.

Course Outlines

Day 1: Introduction to Pipeline Pigging Systems

- Overview of pipeline pigging and its operational importance.
- Main components and functions of a pigging system.
- Design principles for launching and receiving stations.
- Types of pigs and their functions cleaning, gauging, inspection, separation.
- Smart pigging vs. conventional pigging systems.
- Safety measures and preparation before pigging operations.



Day 2: Operating Pigging Systems

- Step-by-step preparation for pigging operations.
- Launching and receiving procedures for different pipeline types.
- Monitoring flow rate, pressure, and velocity during pig movement.
- Managing pig stoppage, plugging, or stuck pig scenarios.
- Optimizing cleaning efficiency through proper pig selection.
- Practical case studies and field operation simulations.

Day 3: Pipeline Inspection and Data Interpretation

- Introduction to intelligent pigging and inspection technologies.
- Types of inspection data and their technical interpretation.
- Detecting corrosion, cracks, and structural defects.
- Correlating inspection results with maintenance planning.
- Data management tools for inspection records.
- Group exercise: interpreting sample inspection data.

Day 4: Pigging System Maintenance and Integrity Management

- Developing preventive maintenance programs for pigging systems.
- Routine inspection of valves, traps, and receivers.
- Selection and storage of spare parts and consumables.
- Documentation and compliance with international maintenance standards.
- Performance monitoring and optimization methods.
- Practical session: building a maintenance plan.

Day 5: Risk Management and Emergency Procedures

- Identifying operational risks in pigging activities.
- Risk mitigation and contingency planning techniques.
- Emergency response during leaks or blockages.
- Safety isolation and containment procedures.
- Review of key learning points from all modules.
- Final assessment and group evaluation exercise.



Why Attend This Course? Wins & Losses!

- Gain a solid understanding of pigging systems and operations.
- Develop hands-on experience in operating and maintaining pigging units.
- Learn to analyze inspection data and identify potential risks.
- Improve pipeline reliability and operational efficiency.
- Enhance technical decision-making and troubleshooting skills.
- Strengthen compliance with safety and integrity standards.
- Boost career growth opportunities in the oil and gas sector.
- Apply learned concepts directly to real-world pipeline projects.

Conclusion

The Pipeline Pigging Operations and Maintenance Training course is a specialized, practical program designed to enhance participants' capabilities in operating and maintaining pigging systems. Through a blend of technical knowledge, real-world case studies, and simulation-based exercises, the course empowers professionals to ensure pipeline integrity, operational reliability, and safety excellence.

Participants will leave with a comprehensive understanding of pigging operations, inspection data interpretation, and preventive maintenance planning — all essential skills for achieving sustainable and cost-efficient pipeline performance in today's energy industry.

