

PIPELINE INTEGRITY MANAGEMENT: TOOLS, TECHNIQUES & STRATEGY

Start Date:	19/01/2026	End Date:	23/01/2026
Categories:	Oil & Gas	Venues:	London
Formats:	In Person	Instructors:	

OVERVIEW

This course delivers a comprehensive approach to pipeline integrity management, focusing on risk assessment, inspection techniques, data analysis, and maintenance strategies. It helps professionals develop and implement effective integrity programs that meet safety, environmental, and regulatory requirements.

OBJECTIVES

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

- Understand pipeline failure mechanisms and integrity threats.
- Apply inspection methods such as ILI, hydrotesting, and corrosion assessment.
- Analyze integrity data and prioritize maintenance activities.
- Develop and implement integrity management plans.
- Comply with industry regulations and build long-term risk mitigation strategies.

COURSE OUTLINE

1. Fundamentals of Pipeline Integrity and Risk-Based Approaches
2. Inspection Tools and Techniques (ILI, Hydrotest, UT, Guided Waves)
3. Data Analysis and Anomaly Assessment
4. Preventive Maintenance and Integrity Planning
5. Regulations, Documentation, and Continuous Improvement

TARGET AUDIENCE

Pipeline integrity engineers, asset managers, inspectors, maintenance planners, and technical advisors in oil & gas transport systems.

METHODOLOGY

Tool demos, integrity case studies, risk modeling workshops, and group strategy labs.

CONCLUSION

Participants will be equipped to manage the lifecycle integrity of pipeline assets using a structured

and data-driven approach aligned with global standards.

DAILY AGENDA

Day 1: Pipeline Integrity and Risk Frameworks

Defining integrity principles, risk models, and threat classifications.

Day 2: Inspection Methods and Tools

Hands-on review of ILI, hydrotests, ultrasonic and magnetic flux technologies.

Day 3: Anomaly Assessment and Data Interpretation

Analyzing integrity data, evaluating defects, and using assessment software.

Day 4: Integrity Planning and Maintenance Strategy

Developing preventive maintenance schedules and mitigation programs.

Day 5: Compliance, Documentation, and Program Improvement

Navigating standards, maintaining records, and enhancing pipeline integrity systems.

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For more information, please contact us:

Email: info@gatewayconsulting.com | Phone: +96522968641

<https://gatewayconsulting.com>