# Pipeline Inspection, Maintenance, and Integrity Training

2027 □□□□□ 18 – 14
Paris (France)



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Ref: 20221812_178474 Location: Paris (France) Fees: 5900 GBP

## Why This Course

Ensuring the safety, reliability, and longevity of pipeline systems is critical in the oil and gas industry. This intensive 1-week course equips professionals with advanced knowledge and practical skills in pipeline inspection, maintenance, and integrity management. Participants will learn to implement effective programs, analyze inspection data, and make informed decisions that enhance operational safety and compliance.

## What You'll Learn and Practice

By participating in this course, you will:

- Understand the principles of pipeline integrity management and risk assessment.
- Master advanced inspection techniques and technologies for pipeline systems.
- Develop proactive maintenance strategies to prevent failures and extend pipeline life.
- Implement comprehensive integrity management programs.
- Navigate regulatory requirements and apply industry best practices.
- Make informed decisions regarding pipeline repair, replacement, and optimization.

## Program Flow

### Day 1: Introduction to Pipeline Integrity Management

- Overview of pipeline systems and their components
- Principles of integrity management and risk assessment
- Regulatory framework and compliance requirements
- Introduction to common pipeline failure mechanisms

### Day 2: Advanced Inspection Techniques

- In-line inspection technologies MFL, UT, EMAT
- External and internal corrosion detection methods
- Stress corrosion cracking and fatigue assessment
- Data analysis and interpretation of inspection results



### Day 3: Maintenance Strategies and Repair Techniques

- Preventive and predictive maintenance approaches
- Corrosion mitigation and control methods
- Pipeline repair and rehabilitation techniques
- Emergency response and leak detection systems

### Day 4: Integrity Management Program Implementation

- Developing and implementing integrity management plans
- Risk-based inspection and maintenance planning
- Performance monitoring and continuous improvement
- Integrating inspection, maintenance, and integrity data

### Day 5: Emerging Technologies and Future Trends

- Advanced monitoring and data analytics
- Machine learning and AI applications in pipeline management
- Hydrogen and CO2 pipeline considerations
- Case studies and hands-on practical exercises

## Training Methodology

This course emphasizes practical learning through:

- Interactive workshops and hands-on exercises
- Case studies of real-world pipeline management scenarios
- Group discussions and problem-solving sessions
- Tools and techniques for immediate application in operational settings

## Beyond the Course

Participants will leave with:

- Ability to develop and implement effective integrity management programs
- Skills to interpret inspection data and make informed maintenance decisions
- Knowledge to ensure regulatory compliance and minimize operational risks
- Capacity to optimize pipeline performance and extend asset life

