

# **Pipelines & Piping Inspection: Comprehensive 5-Day Course**

Oil & Gas Engineering  
Cairo (Egypt)  
13 - 17 Jul 2025

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## Pipelines & Piping Inspection: Comprehensive 5-Day Course

**Ref:** 321609\_136127 **Date:** 13 - 17 Jul 2025 **Location:** Cairo (Egypt) **Fees:** 3300 **Euro**

### Course Description

This intensive 5-day course provides a comprehensive understanding of pipeline and piping inspection, maintenance, and integrity assessment. Participants will gain practical knowledge of ASME and API standards, inspection techniques, and repair methods. The course covers material properties, corrosion mechanisms, and fitness-for-service evaluations.

### Learning Objectives

- Understand ASME and API codes and standards for pipeline and piping systems
- Master various inspection techniques and their applications
- Evaluate corrosion mechanisms and implement effective mitigation strategies
- Perform fitness-for-service assessments and make informed repair decisions
- Develop comprehensive inspection and maintenance programs

### Course Modules

#### Day 1: Introduction and Fundamentals

- Overview of pipeline and piping systems
- ASME and API codes and standards
- Material properties and specifications
- Pipe manufacturing and fabrication processes

#### Day 2: Inspection Techniques

- Visual inspection methods
- Non-destructive testing NDT techniques
- In-line inspection tools and pigging technology
- Data interpretation and analysis

#### Day 3: Corrosion and Degradation Mechanisms

- Types of corrosion in pipelines and piping
- Environmental factors affecting corrosion
- Corrosion prevention and control methods
- Mechanical damage assessment

#### Day 4: Fitness-for-Service and Integrity Assessment

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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- ASME B31G and API 579 methodologies
- Remaining life calculations
- Risk-based inspection RBI principles
- Integrity management programs

## **Day 5: Maintenance, Repair, and Documentation**

- Repair techniques and their applications
- Hot tapping and in-service welding
- Inspection and maintenance planning
- Documentation and reporting requirements

## **Practical Wins for Participants**

- Ability to develop and implement effective inspection programs
- Skills to perform accurate fitness-for-service assessments
- Knowledge to make informed decisions on repair methods
- Capability to create comprehensive integrity management plans

A graphic of a chessboard with several chess pieces. A large gold king piece is in the foreground, with a silver pawn and a silver knight behind it. In the background, there are concentric circles emanating from a point on the board.

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