



OIL AND GAS | OG-036

Pipeline Integrity Management

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Course content

Why Attend

Pipelines transport oil, gas and products over long distances through populated areas, sensitive environments and offshore locations. A single failure can cause fatalities, environmental damage, long outages and regulatory penalties, so operators must manage integrity systematically throughout the pipeline life cycle.

This Aractech course explains how to build and operate a pipeline integrity management programme: threat identification, risk assessment, in-line inspection, direct assessment, defect evaluation, repair methods, corrosion control, leak detection and emergency response. Participants learn how to prioritise integrity activities using risk and data and how to demonstrate compliance to regulators.

Course Methodology

- Technical presentations based on industry practice
- Analysis of pipeline incident case studies
- Inspection data interpretation exercises
- Risk assessment workshops
- Integrity programme design

Course Objectives

- Explain the elements of a pipeline integrity management programme
- Identify and assess threats to pipeline integrity
- Plan in-line inspection and direct assessment
- Evaluate defects and select repair methods
- Apply corrosion control and leak detection
- Measure integrity performance and demonstrate compliance

Course content

| Target Audience

- Pipeline integrity engineers
- Pipeline operations and maintenance staff
- Corrosion and inspection engineers
- HSE and regulatory compliance professionals

Course outline

Detailed course outline

Day-by-day outline for Pipeline Integrity Management.

Day 1 - Pipeline Integrity Fundamentals

- 09:00-09:39 | Pipeline systems and failure consequences
- 09:39-10:18 | Regulatory frameworks and standards
- 10:18-10:57 | Elements of an integrity management programme
- 10:57-11:00 | Data gathering and integration
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Data gathering and integration (continued)
- 12:05-12:43 | Roles and responsibilities
- 12:43-14:00 | Exercise: Pipeline system review

Day 2 - Threats and Risk Assessment

- 09:00-09:39 | Time-dependent, stable and random threats
- 09:39-10:18 | External and internal corrosion
- 10:18-10:57 | Third-party damage and geohazards
- 10:57-11:00 | Risk assessment methods
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Risk assessment methods (continued)
- 12:05-12:43 | Prioritising pipeline segments
- 12:43-14:00 | Workshop: Risk ranking of pipeline segments

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Day 3 - Inspection and Assessment

- 09:00-09:39 | In-line inspection technologies
- 09:39-10:18 | Direct assessment methods
- 10:18-10:57 | Hydrostatic testing
- 10:57-11:00 | Interpreting inspection results
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Interpreting inspection results (continued)
- 12:05-12:43 | Fitness-for-service assessment
- 12:43-14:00 | Exercise: Evaluating ILI data

Day 4 - Mitigation and Repair

- 09:00-09:39 | Defect repair methods
- 09:39-10:18 | Corrosion control and cathodic protection
- 10:18-10:57 | Leak detection systems
- 10:57-11:00 | Damage prevention programmes
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Damage prevention programmes (continued)
- 12:05-12:43 | Emergency response planning
- 12:43-14:00 | Case study: Responding to a pipeline leak

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Day 5 - Programme Management

- 09:00-09:45 | Integrity KPIs and performance
- 09:45-10:30 | Management of change
- 10:30-11:00 | Records and data management
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Records and data management (continued)
- 11:45-12:30 | Audits and continuous improvement
- 12:30-13:15 | Digital tools for integrity
- 13:15-14:00 | Capstone: Pipeline integrity plan

Seminar dates

Available seminar dates

Live dates and pricing for Pipeline Integrity Management generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Amsterdam	Classroom	€2,830
21 - 25 December 2026	London	Classroom	€2,315
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Paris	Classroom	€3,825
15 - 19 March 2027	Istanbul	Classroom	€1,978
19 - 23 April 2027	Kuala lumpur	Classroom	€1,925
17 - 21 May 2027	Rome	Classroom	€3,460
21 - 25 June 2027	Munich	Classroom	€3,225
19 - 23 July 2027	Amsterdam	Classroom	€2,830
16 - 20 August 2027	London	Classroom	€2,315

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18 - 22 October 2027	Paris	Classroom	€3,825
15 - 19 November 2027	Rome	Classroom	€3,460
20 - 24 December 2027	Kuala Lumpur	Classroom	€1,925
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
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