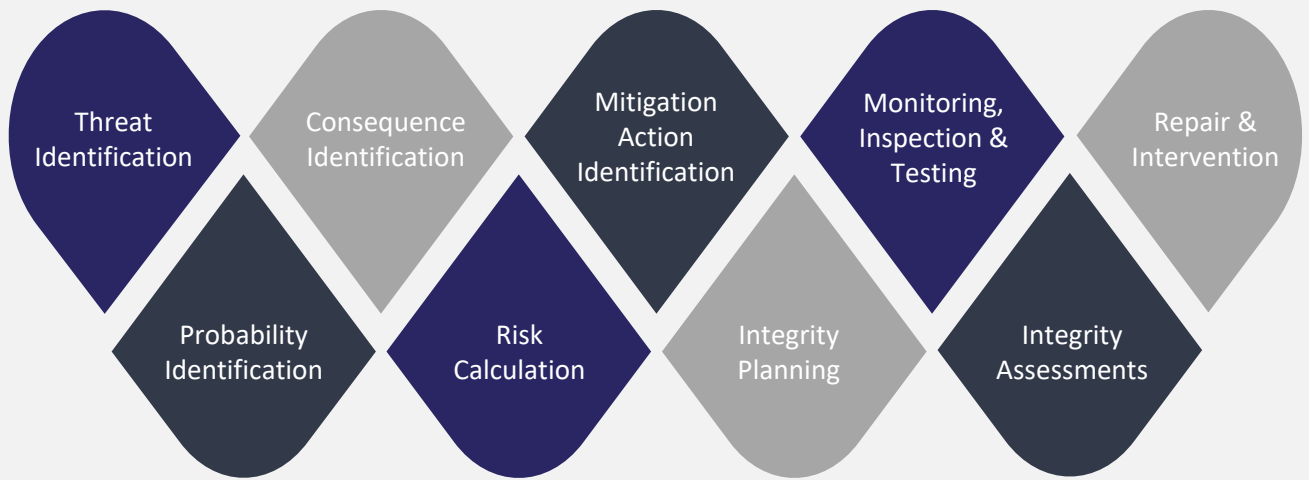


PIPELINE INTEGRITY MANAGEMENT

TRAINING COURSE

Learn the concepts behind the process of Pipeline Integrity Management and its implementation throughout the lifecycle of a pipeline.



WHO SHOULD ATTEND

The Pipeline Integrity Management course is relevant across various sectors including Oil and Gas, Petrochemical, Energy, and Utilities. It caters to professionals working in industries that rely on pipelines for the transportation of fluids, ensuring their safe and reliable operation.

This course is tailored for professionals involved in pipeline operations and maintenance, including engineers, technicians, and managers responsible for integrity management. Additionally, it is beneficial for decision-makers seeking to enhance their understanding of pipeline integrity principles and practices.

TRAINING COURSE AGENDA

OVERVIEW

The structured, but flexible, training program provides the essential knowledge and skills required to apply sound pipeline integrity management principles throughout the lifecycle of a pipeline and linking it to an effective pipeline integrity management process.

It uses a holistic, multi-disciplinary and integrated management approach to explain the concepts behind the process of pipeline integrity management and its implementation throughout the lifecycle of a pipeline.

This program is enriched with interactive case studies. By the end of the course, delegates will leave with a profound understanding of pipeline integrity management, equipped to make informed decisions and ensure the continued safety and reliability of their pipeline systems.

DAILY PROGRAM SCHEDULE

- 09:00 - 10:30 Morning Session 1
- 10:30 - 11:00 Morning Break
- 11:00 - 12:30 Morning Session 2
- 12:30 - 13:30 Lunch Break
- 13:30 - 15:00 Afternoon Session 1
- 15:00 - 15:30 Course Roundup and Finalization

DAY 01

Module 1: Asset Integrity Management Elements

An overview of the 10 elements making up a functioning asset integrity management system

- Integrity elements and their dependency on each other
- History, role and importance of the elements
- Integrity element definition and implementation

Module 2: Introduction to Pipelines

Understanding the role, function, and importance of pipelines in various industries

- Overview, types and components of pipelines
- Material properties and selection criteria
- Regulatory and environmental compliance

Module 3: Pipeline Integrity Lifecycle

Addressing how Integrity should be considered and implemented at different stages of an asset's lifecycle

- The pipeline integrity lifecycle
- Concept selection and definition
- Engineering, design, and construction
- Operations, modification, maintenance, acquisition, decommissioning, and mothballing

Module 4: Pipeline Integrity Management

An overview of the structure and necessary components of a functioning pipeline integrity management system

- Pipeline integrity process and elements
- Pipeline threats and anomalies
- Pipeline mitigation techniques and overview

COURSE FACILITATOR

The course is delivered by AIE's Principal Pipeline Engineers who are experts in the industry and have hands-on experience in setting up and implementing an effective Pipeline Integrity Management System.

TRAINING COURSE AGENDA

DAY 02

Module 5: Pipeline Defect Assessment

An explanation of the design, construction and testing parameters of pipelines and the respective standards

- Corrosion assessment
- Assessment of mechanical damages
- Assessment of cracks, weld defects and laminations
- FFS assessment using API 579

Module 6: Internal Corrosion and Degradation Threats

Detailed analysis of different internal corrosion and degradation threats

- Internal corrosion introduction and mechanisms
- Internal corrosion monitoring and control
- Material selection and protection
- Life cycle cost analysis

Module 7: External Corrosion, Degradation Threats and Pipeline Coatings

Detailed analysis of different external corrosion and degradation threats and their respective susceptible systems

- Introduction to external corrosion and types
- Soil corrosion
- External corrosion monitoring and protection methods
- Pipeline coating techniques

DAY 03

Module 8: Inspection of Pipelines

Overview of various techniques and tools used in the assessment of pipeline integrity

- Pipeline inspection using smart pigs
- Selection of pigs
- Practices and standards

Module 9: Cathodic Protection

Provision of the theoretical background and the practical knowledge that is necessary to operate, maintain and test of CP systems

- Cathodic protection fundamentals
- System components and standards
- Galvanic/sacrificial vs. Impressed current systems
- CP design, maintenance, and testing

Module 10: Pipeline Risk Assessment

In-depth examination of critical aspects involved in evaluating associated risks

- Pipeline risk assessment and management
- Pipeline hazards
- Qualitative and quantitative risk assessment
- Risk assessment methodology

Module 11: Pipeline Repairs

A comprehensive review of emergency repair options and techniques

- Emergency repair and loss of containment
- Fitness for service and defect assessment
- Sleeves, clamps, and connectors and composites
- Line stopping and hot tapping

FLEXIBLE TO MEET YOUR REQUIREMENTS

AIE provides training courses tailored to our clients' unique operating environments. We also offer a comprehensive range of operational risk management services. Please contact us with your enquiry at: training@aiegroup.org or info@aiegroup.org To view our full range of services, visit us on: www.assetintegrityengineering.com

REGISTER NOW

Please complete the below form in full using **BLOCK CAPITALS**.

One completed form is required per delegate. Booking forms and any enquiries should be emailed to training@aiegroup.org.

Delegates can also register direct via our website: <http://www.assetintegrityengineering.com/training/book-now/>

DELEGATE DETAILS PLEASE USE BLOCK CAPITALS

TITLE (MR, MS, MRS, DR.)

FIRST NAME

LAST NAME

YOUR DESIGNATION

COMPANY NAME

DEPARTMENT

NAME OF DEPARTMENT HEAD

NAME OF TRAINING MANAGER

ADDRESS

COUNTRY

POSTAL CODE

EMAIL

TELEPHONE

FAX

SIGNATURE

I HEREBY AGREE TO
AIE'S TERMS AND
CONDITIONS FOR THIS
TRAINING COURSE

DATE

TRAINING PRICE

COURSE TITLE

Pipeline Integrity Management

EARLY BIRD PRICE

1,800 USD*

NORMAL PRICE

2,400 USD

Prices quoted are per delegate attending. Team discounts are available on request.

Please note: accommodation and travel costs are not included in the course fees.

*The Early Bird Price expiry date is as per the training schedule shown on our Online Training Courses webpage (<https://www.assetintegrityengineering.com/training/online-training-courses/>).

TERMS & CONDITIONS

Payment must be made in full at time of registration. Registration will only be confirmed once payment is received in full and notification is received back from AIE. All bank charges to be borne by the payer. All early bird bookings must be paid in full before the offer date closes, otherwise course fees will be charged in full and discount will be lost. It is the responsibility of the attendee to ensure that they have an adequate internet connection as well as audio and microphone facilities.

PAYMENT METHOD

Payment must be made by direct bank transfer. An invoice will be submitted within 5 days of making the booking which will include all bank account and transaction details.

CANCELLATION & POSTPONEMENT POLICY

Payments are non-refundable in the event of cancellation. However, substitute delegates are permitted at any time by providing advance notice to AIE.

In the event that AIE postpones the course and the delegate is unable or unwilling to attend on the rescheduled date, a full refund of monies will be provided. This repayment is limited to the course fees only and does not cover travel and accommodation expenses.

AIE shall assume no liability in the event of this conference being cancelled due to any unforeseen or uncontrollable circumstances.