

Pipeline Integrity Management Programme Development Training Course

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Overview

Pipeline Integrity Management Programme Development Training Course is a one-week advanced course for integrity managers, engineering leads, assurance personnel, and asset owners who leave with a Pipeline Integrity Management Programme Architecture. Participants connect pipeline integrity management, threat identification, data integration, risk assessment, integrity assessment planning, and mitigation governance. The course uses ASME B31.8S and API RP 1160 process structures, performance measures, and assurance records. Agile Leaders Training Center presents this course on pipeline integrity programme development.

Who Should Attend

- Teams responsible for pipeline integrity strategy and governance
- Functions responsible for threat identification and risk assessment
- Personnel responsible for integrity data and assessment planning
- Engineering groups responsible for mitigation and reassessment decisions
- Operations assurance teams responsible for performance and change control
- Asset owners responsible for programme resources and accountability

The course assumes participants can interpret pipeline operating, inspection, maintenance, material, and risk information; it leaves out detailed defect calculations and inspection-tool operation.

Departments and Industries

The course supports departments and industries responsible for governing the integrity of linear assets.

- Gas transmission and distribution pipeline operators
- Hazardous liquid and product pipeline organizations
- Water transmission and utility pipeline operators
- Pipeline integrity and asset-management departments
- Engineering, operations, maintenance, and inspection functions
- Risk, assurance, quality, and management-of-change teams

Learning Objectives

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

- Apply an integrity management programme development lifecycle
- Build a threat, data, and system-knowledge structure
- Analyze risk results and integrity assessment priorities
- Evaluate prevention, mitigation, and reassessment controls
- Design performance, change, communication, and assurance processes
- Build a traceable programme architecture and improvement plan

Course Agenda

Day 1: Define Programme Governance

- ASME B31.8S Integrity Management Process Map
- API RP 1160 System Integrity Structure
- Programme Scope and Asset Boundary Register
- Integrity Roles and Accountability Matrix
- Programme Policy and Governance Charter

Day 2: Structure Threats and Data

- Pipeline Threat Identification Taxonomy
- System Knowledge and Data Source Register
- Integrity Data Integration and Quality Matrix
- Data Gap and Uncertainty Escalation Log
- Threat Review and Evidence Record

Day 3: Connect Risk and Assessment

- Pipeline Risk Assessment Method Selection Sheet
- Segment Prioritization and Consequence Matrix
- Integrity Assessment Method Decision Tree
- Baseline and Reassessment Planning Schedule
- Risk-to-Assessment Traceability Map

Day 4: Govern Controls and Performance

- Preventive and Mitigative Measures Register
- Remediation and Response Decision Workflow
- Integrity Performance Measure Dashboard
- Management of Change Control Procedure
- Communication, Quality, and Assurance Review Plan

Day 5: Practice Programme Development

- Suggested Exercise: Define Programme Scope and Governance
- Suggested Exercise: Build a Threat and Data Structure
- Suggested Exercise: Link Risk to Assessment Decisions
- Suggested Exercise: Design Controls and Performance Measures
- Capstone Exercise: Present a Pipeline Integrity Management Programme Architecture

Practical Exercises

The course uses suggested activities to connect technical evidence with controlled programme decisions.

- Suggested activity: define asset boundaries, responsibilities, decision rights, and programme records for a pipeline system.
- Suggested activity: map threats to data sources, quality issues, uncertainty, and accountable reviewers.
- Suggested activity: connect segment risk results with assessment methods, priorities, mitigation, and reassessment.
- Suggested activity: assemble performance measures, change controls, communications, assurance, and improvement actions.

FAQs

Who suits pipeline integrity management programme development training, and what does it assume?

Integrity, engineering, operations assurance, risk, and asset personnel suit the training. It assumes participants can interpret operating, inspection, maintenance, material, and risk information.

How does pipeline integrity management differ from pipeline inspection training?

Pipeline integrity management governs threats, data, risk, assessments, mitigation, performance, and improvement across an asset system. Pipeline inspection training focuses on selecting, executing, and interpreting particular inspection methods.

What elements belong in a pipeline integrity management programme?

A pipeline integrity management programme links scope, system knowledge, threats, data, risk assessment, integrity assessment, remediation, prevention, mitigation, reassessment, performance, records, communications, management of change, quality, and assurance.

How are pipeline risk results used in integrity management?

Pipeline risk results support segment prioritization, assessment-method selection, scheduling, preventive and mitigative measures, reassessment, and resource decisions, with assumptions and uncertainty kept traceable.

How is pipeline integrity programme effectiveness evaluated?

Programme effectiveness is evaluated through defined performance measures, trend review, incident and assessment learning, control verification, assurance findings, management review, and documented improvement actions.

Conclusion

Participants take a Pipeline Integrity Management Programme Architecture back to their organization. It connects governance, threats, data, risk, assessment, mitigation, performance, change, communications, and assurance in one traceable structure. Teams can use it to align technical decisions with accountability, evidence, and continual programme improvement.

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