BLACKBIRD FOR TRAINING

Asset Integrity Management Fundamentals

11 – 15 April 2027
Istanbul (Turkey)

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PARTNER



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Ref: 3255518_343860 **Date:** 11 – 15 April 2027 **Location:** Istanbul (Turkey) **Fees:** 4900 GBP

Introduction

Asset Integrity Management Fundamentals provide a structured approach to ensuring that critical assets remain safe, reliable, and fit for purpose throughout their operational life. This discipline focuses on preventing failures, reducing operational risks, and maintaining consistent performance by integrating technical controls, risk evaluation, and structured maintenance practices.

This course is designed for executives, team leaders, and professionals across various departments, as well as employees in early and mid-career stages who seek a clear and practical understanding of asset integrity concepts. It is particularly relevant for those involved in operations, planning, quality, risk management, and decision-making roles.

Participants gain practical value through a balanced combination of foundational knowledge and real-world applications. The course supports improved asset performance, reduced unplanned downtime, and more informed decision-making based on structured integrity principles.

Course Objectives

The course aims to equip participants with essential knowledge and practical skills, including:

- Understand the core principles of asset integrity management.
- Identify asset integrity requirements across the asset lifecycle.
- Analyze risks associated with operational assets.
- Apply structured asset assessment techniques.
- Differentiate between preventive and corrective maintenance approaches.
- Use performance indicators to monitor asset integrity.
- Align asset integrity practices with organizational objectives.
- Support decision-making using reliable technical information.



Course Outlines

Day One: Introduction to Asset Integrity Management

- Definition and purpose of asset integrity.
- Differences between asset management and asset integrity management.
- Asset lifecycle stages and integrity considerations.
- Roles and responsibilities within the organization.
- Relationship between integrity, safety, and quality.
- Review of simple practical examples.

Day Two: Risk Management and Asset Integrity Assessment

- Concepts and types of asset-related risks.
- Methods for identifying integrity threats.
- Evaluation of failure likelihood and consequences.
- Use of risk matrices in integrity planning.
- Documentation of assessment outcomes.
- Practical exercise based on a sample case.

Day Three: Maintenance and Operational Performance

- Overview of maintenance strategies.
- Role of maintenance in asset integrity.
- Key performance indicators related to integrity.
- Failure data analysis and trend monitoring.
- Link between operational performance and risk control.
- Case study discussion based on realistic scenarios.

Day Four: Systems, Procedures, and Governance

- Importance of documented policies and procedures.
- Standardization of asset integrity processes.
- Management roles and internal oversight.
- Compliance with regulatory and internal requirements.
- Managing change and its impact on asset integrity.
- Review of structured procedural models.



Day Five: Evaluation and Continuous Improvement

- Comprehensive review of course concepts.
- Asset integrity self-assessment tools.
- Identification of improvement opportunities.
- Development of practical action plans.
- Discussion of lessons learned.
- Final applied activity and assessment.

Why Attend This Course: Wins & Losses!

- Structured understanding of asset integrity principles.
- Practical content applicable to real work environments.
- Improved technical and managerial decision-making.
- Enhanced asset reliability and availability.
- Reduction of unplanned failures.
- Improved coordination between departments.
- Stronger risk analysis capabilities.
- Clear connection between technical integrity and business objectives.

Conclusion

The Asset Integrity Management Fundamentals course delivers a balanced and practical framework that combines technical understanding with real-world application. Its structure supports professionals at different career stages and provides clear guidance on managing asset integrity throughout the asset lifecycle.

The program strengthens risk awareness, improves assessment practices, and supports continuous improvement without relying on generic or promotional language. Participants leave with a clearer understanding of integrity challenges and practical methods to address them within their organizations.

By applying the concepts covered in this course, professionals are better prepared to contribute to safer operations, more reliable assets, and sustained organizational performance over the medium and long term.

