



*Training Course:
Asset Integrity Management*

*14 - 18 April 2025
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Asset Integrity Management

Training Course code: HE235776 From: 14 - 18 April 2025 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 6545 € Euro

Introduction:

This Asset Integrity Management training program is designed to equip professionals in the Project & Engineering Unit with the knowledge and practical tools needed to maintain and improve the integrity of assets throughout their lifecycle. The program focuses on the principles, standards, and strategies essential for ensuring assets are operated safely and effectively, mitigating risks, and maximizing operational efficiency. This course will cover the full scope of asset integrity management, from design and construction to operation, maintenance, and decommissioning.

Objectives:

- Understand the concept and importance of asset integrity management in engineering projects.
- Learn about regulatory frameworks and standards governing asset integrity.
- Gain knowledge of risk management strategies and failure analysis.
- Develop skills to assess, monitor, and enhance the performance of assets.
- Learn techniques for maintaining and extending asset life while ensuring safety and compliance.
- Understand the role of technology and innovation in asset management.

Organizational Impact:

- **Enhanced Safety:** By ensuring assets are maintained and monitored for potential risks, this program will reduce accidents and improve the safety of the workforce.
- **Optimized Asset Performance:** Participants will learn how to maximize the performance and reliability of assets, resulting in cost savings and extended asset lifespans.
- **Compliance and Risk Reduction:** Understanding regulatory requirements helps ensure the organization is compliant with industry standards, thus reducing the risk of legal penalties.
- **Improved Decision-Making:** The program will provide valuable insights for decision-makers in project and engineering departments, fostering better planning, design, and operational strategies.

Target Audience:

- Engineers and project managers involved in asset lifecycle management.

- Professionals in maintenance, operations, and reliability engineering.
- Risk and safety managers.
- Supervisors and leaders in the Project & Engineering Unit.

Outlines:

Day 1: Introduction to Asset Integrity Management

- Definition and Importance of Asset Integrity
- Overview of Asset Lifecycle: Design, Operation, Maintenance, and Decommissioning
- Key Standards and Regulatory Frameworks ISO, API, etc.
- Asset Integrity vs. Asset Management
- Organizational Roles and Responsibilities in Asset Integrity

Day 2: Risk-Based Approach to Asset Integrity

- Introduction to Risk-Based Asset Integrity Management RBI
- Identifying Asset Risks and Criticality
- Risk Assessment Techniques and Tools
- Fault Tree Analysis and Failure Modes
- Case Studies on Asset Failures and Lessons Learned

Day 3: Monitoring and Maintenance of Assets

- Asset Monitoring Techniques and Technologies
- Predictive and Preventative Maintenance Strategies
- Integrity Testing and Inspection: Tools and Best Practices
- Data Management and Asset Performance Analysis
- Developing and Implementing Maintenance Plans

Day 4: Asset Integrity Strategies and Optimization

- Asset Integrity Management Plans AIMP

- Condition Monitoring and Performance Metrics
- Decision-Making for Asset Maintenance vs. Replacement
- Life-Cycle Cost Analysis LCCA for Asset Management
- Use of Technology and Innovation in Asset Integrity IoT, AI, Digital Twins

Day 5: Practical Applications and Case Studies

- Review of Real-World Asset Integrity Challenges
- Group Work: Developing an Asset Integrity Management Plan
- Key Challenges in Project & Engineering Units
- Maintaining Asset Integrity Across Project Phases From Design to Decommissioning
- Final Review and Q&A

Registration form on the Training Course: Asset Integrity Management

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