Comprehensive Course in Asset Integrity Management for the Petroleum Industry

London (UK)

19 - 30 May 2025

UK Traininig

PARTNER

Comprehensive Course in Asset Integrity Management for the Petroleum Industry

Code: OG28 From: 19 - 30 May 2025 City: London (UK) Fees: 8600 Pound

Introduction

Asset Integrity Management AIM is an essential practice for ensuring the safe, reliable, and efficient operation of assets within the petroleum industry. This comprehensive 10-day asset integrity management course is tailored to equip professionals with the knowledge and skills needed to develop and sustain effective AIM programs throughout the asset lifecycle. From design and construction to operation and decommissioning, participants will gain a robust understanding of asset integrity management, enabling them to optimize asset performance, mitigate risks, and maintain compliance with industry regulations. This course serves as an ideal opportunity for those seeking advanced asset management training to become proficient in asset integrity management services and solutions.

Course Objectives

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

- Understand the core principles and importance of asset integrity management within the petroleum industry.
- Develop comprehensive AIM programs and strategic frameworks to safeguard assets.
- Utilize modern tools and technologies to enhance asset integrity, including predictive maintenance and digital tools such as AI, IoT, and digital twins.
- Conduct thorough risk assessments and failure analysis, leveraging methodologies such as FMEA and RCA.
- Apply best practices for the maintenance, inspection, and repair of petroleum assets, ensuring their optimal operation and longevity.
- Ensure regulatory compliance by understanding relevant standards and documentation requirements.
- Develop and sustain a culture of safety, reliability, and continuous improvement within their organizations.

Course Outlines

Day 1: Introduction to Asset Integrity Management

- What is asset management and its role in the petroleum industry?
- Defining asset integrity management and its strategic importance.
- The lifecycle approach to asset integrity and the interconnectedness of asset management positions.
- Understanding the current trends and challenges in asset management, with a focus on global asset management solutions.

Day 2: Developing AIM Programs

- Key components of effective asset integrity management programs.
- Setting realistic goals and defining objectives for AIM initiatives.

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- Identifying and assessing critical petroleum assets, ensuring alignment with the asset management definition.
- Creating AIM policies and procedures tailored to an organization's unique needs.
- The role of leadership and the significance of fostering a culture that prioritizes asset integrity.

Day 3: Advanced Tools and Technologies for AIM

- An overview of cutting-edge technologies used in asset integrity management services.
- The use of advanced inspection and monitoring tools to ensure asset reliability.
- Data management, analysis tools, and implementing digital solutions like digital twins and IoT.
- Leveraging AI and machine learning for predictive maintenance and enhancing overall asset integrity management solutions.

Day 4: Risk Assessment and Failure Analysis

- Understanding risk assessment methodologies and their importance in asset integrity management.
- Identifying potential failure modes and conducting comprehensive failure mode and effects analysis FMEA.
- Root cause analysis RCA techniques for uncovering underlying issues.
- Developing and implementing risk mitigation strategies for optimal asset management.

Day 5: Maintenance, Inspection, and Repair

- Best practices for efficient maintenance management to protect asset integrity.
- Innovative inspection techniques and technologies for petroleum assets.
- Effective repair methodologies that extend asset life.
- Planning and scheduling activities for maintenance to minimize downtime and maintain asset value.
- Case studies demonstrating successful maintenance and repair practices.

Day 6: Regulatory Compliance and Standards

- Overview of global asset management standards and regulations, including the significance of asset integrity management.
- Ensuring adherence to industry regulations and maintaining high standards of compliance.
- Conducting thorough audits and assessments to verify regulatory adherence.
- Documenting compliance and preparing reports in alignment with asset management positions and policies.

Day 7: Performance Optimization and Life Extension

- Techniques for optimizing the performance of petroleum assets through integrity asset management practices.
- Strategies for extending the asset lifecycle, including condition monitoring and health assessments.
- Implementing initiatives that drive continuous performance improvement.
- Analyzing case studies that highlight successful optimization efforts in petroleum asset management.

Day 8: Integrating AIM with Other Management Systems

- Exploring the integration of AIM with health, safety, and environmental HSE management.
- Linking AIM with quality management systems and asset management frameworks like ISO 55000.
- Benefits of a holistic approach through integrated management systems for enhanced asset performance.

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- Leveraging comprehensive asset management solutions to maximize efficiency.

Day 9: Change Management and Continuous Improvement

- Principles of change management within AIM programs.
- Implementing continuous improvement strategies to evolve with technological advancements.
- Measuring and monitoring AIM performance for effective outcomes.
- Utilizing feedback mechanisms and lessons learned to inform future asset management strategies.

Day 10: Building a Culture of Safety and Reliability

- Establishing a culture of safety and reliability as a pillar of asset integrity management.
- Promoting a workplace culture that prioritizes reliability, training, and competency development.
- Effective communication and stakeholder engagement to support AIM goals.
- Strategies for fostering a sustainable culture of continuous improvement and asset integrity.

Conclusion

This advanced asset integrity management course equips participants with the tools, knowledge, and strategies required to excel in asset management positions within the petroleum industry. From understanding the asset integrity management definition to implementing comprehensive AIM solutions, attendees will leave with practical skills that position them to contribute effectively to global asset management initiatives. Invest in this essential training to advance your career and uphold the standards of asset integrity and reliability.

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