Asset integrity

A two day course covering a broad range of topic areas designed to improve the understanding of the key requirements for effective asset integrity management in high hazard process industries.

5th - 6th November 2019 - Teesside, ABB Office
12th - 13th May 2020 - Daresbury, ABB Office
3rd - 4th November 2020 - Teesside, ABB Office
A two-day training course covering a broad range of topic areas designed to improve the understanding of the key requirements for effective asset integrity management in high hazard process industries.

Sound asset integrity management is key to ensuring reliable, profitable and productive operations whilst protecting safety, health and the environment. Maintaining asset integrity and minimising downtime requires a careful balance of priorities and a good understanding of risk mitigation and risk management activities.

Below is the HSE definition of asset integrity management: "Asset integrity management systems outline the ability of an asset to perform its required function effectively and efficiently whilst protecting health, safety and the environment and the means of ensuring that the people, systems, processes, and resources that deliver integrity are in place, in use and will perform when required over the whole life-cycle of the asset."

This course will show delegates the key considerations throughout the full asset life-cycle ranging from initial design and material selection, through to age related damage and deterioration. It aims to identify how the knowledge of vulnerabilities, deterioration, obsolescence and awareness of organisational competence can be used to develop and implement appropriate strategies and good practices.

What will the course cover?
- Understand what is meant by asset integrity management
- Provide an appreciation of how potential threats to mechanical integrity can arise throughout the asset lifecycle
- Provide an appreciation of how the threats to mechanical integrity can be managed
- Provide a fuller understanding of asset management and process safety risk management processes including:
  - RBA, RBI and criticality analysis
  - Identification and management of deterioration mechanisms
  - Inspection, fitness for service assessments
  - Maintenance, repairs and MoC
  - Competence for integrity management
  - Asset life planning
- Reduce the number of hazards and mitigate the risks that arise from equipment failures / loss of primary containment, which can result in:
  - Injury to plant operators and maintainers (including third parties);
  - Environmental damage and harm to the public
  - Business interruption through loss of production
  - Negative / adverse publicity
- Ensure statutory and legislative compliance
- Enable economically viable (profitable) production by:
  - Reducing CapEx and OpEx costs
  - Reducing equipment lifecycle cost of ownership
  - Obsolescence management
Duration: Two days

Price
£1,460

Who will benefit and what will they gain?
The course is aimed at operators, designers, engineers and managers from operating companies who have a responsibility for developing, authorising and implementing asset integrity management strategies. In completing this course, they will be enabled to make better contributions and decisions regarding hazard recognition, prevention and risk management.

Training method
The style of the trainers is to encourage participation in the discussions and to use case studies based on actual incidents to broaden delegates’ understanding of the topics, improve knowledge retention, and identify ways of safeguarding asset integrity.

Course leader
Graham Harvey is an asset integrity specialist responsible for delivery of integrity management studies and strategies, including asset life extension studies at on and off-shore oil and gas facilities, chemical and pharmaceutical plants. This includes conducting due diligence studies on high hazard processes, development of integrity management procedures and audit protocols. Graham has 37 years of operational experience gained in oil and gas, petrochemicals & plastics, and food processing industries, many of which were high hazard top-tier COMAH facilities.

Day one agenda* - 09:00 to 17:00
- Registration and coffee
- Welcome and introduction
- What is asset integrity management
- Design and materials of construction
- Risk Based Inspection (RBI)
- Causes of deterioration
- Criticality
- Inspection
- Close

Day two agenda* - 08:30 to 16:30
- Review of day one
- Fitness for service
- Design and construction
- Maintenance, repairs and Management of Change (MOC)
- Managing deterioration and obsolescence
- Dealing with obsolescence
- Competence for integrity management
- Organising for integrity management
- Asset life planning
- Review and feedback
- Close

How to book
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