



An Intensive 5-Day Training Course

Asset Integrity Management:

Understanding and Awareness of the Safety Critical Elements

PROGRAMME SUMMARY

The Asset Integrity Management training course covers essential skills such as the introduction to the function of asset integrity management and how it integrates with and impacts operations, arrangement of inspection and maintenance cycles for SCEs with regards to plant operating equipment, and description of controls and procedures that are observed to control equipment stresses due to continuous or frequent operations.

Date	Venue	Fee(\$)
01 - 05 Aug 2021	Dubai	US\$ 4,950
12 - 16 Dec 2021	Dubai	US\$ 4,950
31 Jul - 04 Aug 2022	Dubai	US\$ 4,950
11 - 15 Dec 2022	Dubai	US\$ 4,950

INTRODUCTION

This highly participative training course will help you to understand safety critical elements and how to achieve asset integrity management. Barrier systems are used to protect humans and assets from hazards. These barrier systems may be classified as either active or passive barrier systems, and as physical, technical or human/operational barrier systems. Safety Critical Elements (SCE) are part of these barrier systems to protect against major hazardous events such as fire, explosions, collisions, etc. SCEs prevent, control, mitigate and facilitate safe evacuation from the identified major hazards. This program will employ advanced analytical tools such as Bowtie modelling for modelling preventative and corrective safety barriers for mitigation and response.

The methodology involved risk assessment, major hazard scenario development, SCE identification, establishing a performance standard, developing maintenance, inspection and testing plans, implementing assurance activities and, finally, issuing a key performance indicator.

Participants attending the Asset Integrity Management training course will develop the following competencies:

- How to develop more robust asset integrity maintenance and reliability philosophy
- Learning about asset management integration and learning from incidents of major failures
- Risk and hazards management
- How to get the most out of Computerised Maintenance Management Systems (CMMS)

Online
learning service
available



TRAINING METHODOLOGY

The Asset Integrity Management training course will combine presentations with interactive practical exercises, supported by video materials, activities and case studies. Delegates will be encouraged to participate actively in relating the principles of asset management to the particular needs of their workplace.

In-house Training

EuroMaTech is capable of conducting this training programme exclusively for your delegates. Please e-mail us on inhouse@euromatech.ae for further information and/or to receive a comprehensive proposal.



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Email Address:
info@euromatech.ae

Website:
www.euromatech.com

WHO SHOULD ATTEND

This EuroMaTech training course will be beneficial to:

- Technicians and managers who need knowledge of managing hazardous materials and complex machinery.
- Personnel involved in hazardous substances management and programs
- HSE personnel involved in safety management systems
- Engineers required having knowledge of process safety aspects of plant operation
- Other personnel interested in asset management integrity

PROGRAMME OBJECTIVES

This Asset Integrity Management training course aims to enable participants to achieve the following objectives:

- Recognize the fundamentals of asset integrity management and definition 'safety critical element' (SCE)
- Ensure good understanding of hazardous risks
- Establishing safe procedures for operations and maintenance activities
- Selecting effective control measures for hazardous risks
- Establishing effective emergency management plans and emergency response actions
- Learning from failures: decision analysis of major disasters

QUALITY CERTIFICATIONS & ACCREDITATIONS



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COURSE OUTLINE



Day 1

Introduction to Asset Integrity Management (AIM)

- Asset Integrity Management (AIM)
- Management Responsibility
- AIM Life Cycle
- Failure Modes and Mechanisms
- Asset Selection and Criticality Determination
- Asset Integrity Procedures

Day 2

Asset Integrity and Risk Assessment

- Risk Assessment
- Project Risk Management
- Risk and Reliability Analysis
- Risk Priority Number (RPN)
- Failure Mode and Effect and Criticality Analysis (FMECA).
- Iso Critical Curves

Day 3

Inspections, Maintenance, Reliability and Repair Asset Integrity

- Inspection and Maintenance of Systems
- Monitoring of Corrosion and Erosion Damage of Pipelines
- Fault Tree Analysis (FTA)
- Reliability Block Diagrams (RBD)
- Minimum cut Set Analysis (MCSA)
- Case Studies from various industries

Day 4

Performance Measures and Key Performance Indicators (KPIs)

- Challenges of Performance Measures
- Performance Measures as a Continuous Improvement Process
- The Overall Equipment Effectiveness (OEE) as a Source of Best Practice in Maintenance
- Best and Worst Practices in Performance Measures
- Performance measures for Total Productive Maintenance (TPM)
- Performance measures for Reliability Centred Maintenance (RCM)
- Common maintenance metrics and development of the maintenance department scorecard

Day 5

Best Practice Through Manufacturing and Maintenance Systems

- How to get the most of your Computerised Maintenance Management System (CMMS)?
- Benefits that can result from CMMS
- Optimum Decisions for Maintenance Policies
- The Applications of the Decision Making Grid (DMG)
- How to transform Data to Decisions
- Examples of Approaches and Case Studies. Examine the organizational and managerial considerations for effective maintenance work

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All Fees are subject to 5% Value Added Tax (VAT)*

Your Details

Name (Mr/Ms):

Position: Organisation:

Address:

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City / Country:

Telephone: Email:

Mode Of Payment

Please find enclosed a cheque made payable to EuroMaTech

Please invoice me

Please invoice my company as follows:

Contact Name:

Company Name:

Address:

Email:

Documentation

High Quality material has been prepared by the Seminar Leader for distribution to delegates.

Certificates

A Certificate of Completion will be issued to those who attend & successfully complete the programme.

Registration & Payment

Please complete the registration form on this page & return it to us indicating your preferred mode of payment.

For Further Information, email us at info@euromatech.ae.

Cancellation Policy

Request for seminar cancellation must be made in writing & received at EuroMaTech three weeks prior to the seminar date. A U.S.\$250/- processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.

Disclaimer

EuroMaTech reserves the right to alter the content, location of the Seminar, or the identity of the speakers in case of events beyond our control.

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