

**Training Title**

**ASSET INTEGRITY MANAGEMENT**

**Training Duration**

**5 days**

**Training Dates & Venue**

REF ML011	Asset Integrity Management	5	08 - 12 January, 2024	\$5,500	Dubai, UAE
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**In any of the 5-star hotels. The exact venue will be informed once confirmed.**

**Training Fees & Date**

- \$5,500 per participant for Public Training including Materials/Handouts, International Buffet Lunch, and Tea/Coffee Refreshments.

**Training Certificate**

**Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.**

**TRAINING OVERVIEW**

**TRAINING INTRODUCTION & DESCRIPTION**

During these days of recession, on account of Liberalization, Privatization, and Globalization, return on investment is of paramount importance. There are many important methodologies and Techniques available for improving Plant Reliability and Availability. Asset Integrity Management is an effective system for managing the integrity of Plant Machinery, Equipment, Piping, and pipelines throughout the Life cycle.

The preservation of assets is essential not only for Security and Safety, but also for Operational value and quality. Long Term management at the conception of the Asset is the Key to peak performance as well as profitability.

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**AIM OF THE TRAINING**

The course aims to provide upgraded knowledge on this topic to the Asset Integrity Managers, Maintenance Managers, and Engineers, who are Competent to handle:

- The people
- System
- Processes and resources

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The course marks a significant advance in the delivery of specialized professional development, designed to meet the “real world” needs of industry.

### TRAINING OBJECTIVES

#### THE COURSE WILL ENABLE PARTICIPANTS TO:

- Develop and utilize skills in integrating knowledge draw from different subject areas, through coursework, case studies, research and project work.
- Develop knowledge of tools and techniques used to resolve problems in as asset management context.
- Explore and develop understanding of the integrity and Reliability relationship, and their importance to companies.
- Analyze and justify the importance of a safety culture and the development of risk assessment skills.
- Analyze and justify the importance and effectiveness of the financial management of assets through their life cycle.
- Identity, justify and apply the systems and techniques that are used to effectively maintain and monitor asset integrity and reliability.
- Use business management expertise to manage assets in line with company mission and values.
- Develop the skill and abilities for the effective management of projects, work and assets.
- Use and develop knowledge of strategies for optimum asset integrity and reliability management.
- This course enables us to utilize the necessary available information to assess the conditions of the asset.
- This course helps the participants to determine the necessary corrective or preventive actions to ensure the safe operation and in such a way the budget is spend where the risk or consequence of the failure is highest.
- The participants will gain knowledge about the integrity of the asset, in order to operate within the acceptable safety margins and to ensure optimized economy throughout the operations life.

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**TRAINING METHODOLOGY:**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

All presentations are made in excellent colorful power point. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

**WHO SHOULD ATTEND?**

A unique course relevant to those who aspire to competently Manage and co-ordinate physical assets to optimum effect namely Managers, Section Heads, Engineers, Senior Staffs & Executives. All organizations that possess physical assets need asset Integrity management. This course is aimed at the following industry sector:

- Oil & Gas (Offshore Installations, Plant and Equipment)
- Petroleum and Petrochemical Industries.

**COURSE DAILY OUTLINE**

- Introduction & Management to Integrity and Reliability  
The Management to Integrity & Reliability covers the
  - Structures
  - Process systems
  - Industrial plants
  - Transportation systems
  - Infrastructure and other assets.
- What is integrity?
- Core technical processes of asset management
- Key processes of asset integrity management
  - Demand management
  - Management of Change
  - Environmental Management

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- Maintenance management
- Quality management
- Safety and Risk management
- P – D – C – A

## Elements of Integrity Management

### Assuring Mechanical Integrity

- Problem Solving
- Asset Life Cycle Analysis
- Health and Risk Assessment

Occupational safety and health are a cross-disciplinary area concerned with protecting the safety, health and welfare of people engaged in work or employment. As a secondary effect, it may also protect co-workers, family members, employers, customers, suppliers, nearby communities, and other members of the public who are impacted by the workplace environment.

- Loss Control Processes
- Accident, Reporting, Investigation, Lessons learn, Emergency Response & Control, Audits & Inspection
- Maintenance and Inspection for Asset Integrity
- Protective Systems

The objectives of an Asset Integrity Management (AIM) system are the delivery of business requirements and maximizing return on assets, whilst maintaining stakeholder value and minimizing business risks associated with accidents and loss of production. Asset Integrity is the ability of an asset to perform its required function effectively and efficiently whilst safeguarding life and the environment. The related management activities ensure that the people, systems, processes and resources which deliver integrity, are in place, in use and fit for purpose over the whole lifecycle of the asset.

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- Competence Assurance and Performance Assessment
- Emergency Response
- Materials and Spares Management
- Documentation & Engineering Drawings

#### NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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