

ASSET INTEGRITY MANAGEMENT

*“Aligning Assets Management Strategies
with The Corporate Objectives”*



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ASSET INTEGRITY MANAGEMENT IN OIL & GAS INDUSTRIES

Program objectives

The ultimate goal of this course is to bridge the gap between the theoretical and practical knowledge of Integrity Management methodology and processes. The summary of the course objectives are:

- **How** to maximize the economic value of the company by optimally design, maintain, operate and decommission assets to high and consistent standards using the AIM process.
- **Explain** the different strategies required to ensure that the integrity and reliability of assets are effectively managed throughout the entire life cycle from design (Pre- FEED through decommissioning).
- **Understand** the 10 reasons why Asset Integrity Management Fails.
- **Explore** in details the basic Assets Integrity Management Modules (8 Modules).
- **Introducing** ISO 55000 (Formerly PAS 55 part 1&2)
- **Recognize** the different control options and explains how good mitigation can reduce the risk exposure

and be used as an effective tool to address the life extension requirements of ageing facilities.

- **Discusses** major operator's advancement in AIMS realities and benchmark the assets integrity management practices with best in class operators.
- **Clarifies** the organizational interfaces and roles and responsibilities of the relevant technical personnel engaged in the development and implementation of the AIMS.
- **Champion** effective utilization of the organization accumulated wisdom and lesson learned.
- **Provides** process to measure corporate achievement against identified Key Performance Indicators (KPI's).
- **Understand** how AIM are imbedded in the Projects and Operation phases “Design to abandonment”.
- **Strategic** approach to achieve Asset Integrity Management excellence.
- **Emphases** on getting the technology, process and people balanced right and the value of team work in building effective organizations.



WHO SHOULD ATTEND

The target participants are:

- Asset Managers, team leaders and senior engineers engaged the development, roll-out & implementation of the Integrity Management scheme.
- Pipelines, Structures, Wells, Plant & Facilities, Projects Engineers
- Operation & Maintenance Engineers, Leaders & Managers.
- Integrity, Inspection, Corrosion group members.
- QA/QC specialists.

TRAINING METHODOLOGY

- Participant will learn by active interaction during the program through the use of exercises, syndicate and group discussion on the program topics and real life issues.
- Course size will be limited to 15 delegates to allow effective coverage, stimulate group discussion and enable group networking and interaction.
- Throughout the course, participants will be encouraged to discuss their organization specific problems, seek group views and guided to develop their own corrective action agenda for implementation upon returned to their workstations.
- The Instructor will use his patented "Hudson Express Train Game" as a tool to measure the participant understanding of the course materials, practice Assets Integrity Management process and encourage team building spirit in a competitive and joyful environment.
- The handout materials not only include 350 plus power point slides but also include a carefully designed text of 110 pages which explained all technical matters discussed during the 5 days course.

Day 1

- Introduction of Instructor and Participants
- Course Objectives
- Participant Expectations
- Integrity Management Strategy
- Integrity Management Life Cycle
- Integrity Management of Physical Assets (according to ISO 9004 & ISO 55000 (Formerly PAS 55))

Module 1

Data Management and Acquisition

Module 2

Hazard Identification & Risk Assessment

Module 3

Monitoring & Inspection

Exercise I (Team Building)

Module 4

Implementation

Day 2

Module 5

Performance Management & Reporting Schedules

Module 6

Roles and Responsibilities

Module 7

Tactical Review and Audit

Module 8

Experience Gained and Lessons Learned

Day 3

- Integrity Management regulatory Codes & Standards
- Corrosion & Corrosion Control Options

Exercise II (Hudson Express Train Game Part A)

- Excellence is Integrity Management
- Why Asset Integrity Management fail in places
- Developing best fit "AIMS" for your organization (Business Case)

Day 4

- How Asset Integrity Management Fundamentals can be effectively applied to Pipelines, Structures, Wells, Plant & Equipment.

Exercise III (Hudson Express Train Game Part B)

- Repair Option

Day 5

Exercise IV (Hudson Express Train Game Part C)

- Leading the Change
- Change Management process and methodology
- Cost of Integrity Loss
- Computer and Asset Management

**FOR
FURTHER
INFORMATION**

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