

Workshop on

“Total Asset Integrity Management”

3-Days Session

About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in you teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

About Trainer

Mr. Ahmad has graduated in Mechanical Engineering and Master of Computer Science. He is an API authorized / certified for Above Ground Storage Tanks (API-653), Pressure Vessels (API-510), Damage Mechanisms Affecting Fixed Equipment in the Refining Industry (API-571), Welding and Metallurgy (API- 577) and Risk Based Inspection (API-580). He has various NDT levels.

He has good knowledge of conventional and advance NDT techniques including intrusive and non-intrusive. He has earned more than 27 Years of experience in the field of Inspection, Metal fabrication & Erection and total Asset Integrity Management System. He has sound knowledge of API, ASME, NACE, BS and international standards.

He is an experienced technical auditor / trainer in the field of Asset Integrity Management System, RBI, Storage Tanks, Pressure Vessels, Plant Piping, Pipeline, Pressure Relieving devices, control valves and utility plant equipment including steam turbines etc.

He has conducted various in house and public courses abroad and within Pakistan for the companies like PETRONAS, ADCO, BP, PPL, Shell Pakistan, Shell Oman, Shell Dubai, PSO, Attock Refinery and etc. He is actively involved in the Internal audit, document review, technical procedures review and Inspection of steel fabrication, API 5L line pipe, piping, pipeline, Boilers, HRSG, Pressure Vessels, Heat Exchangers, Storage Tanks, Steel structure and equipment for cement plants, power plants and sugar mills etc. He has been conducting internal audits of the company. He is an approved Sector Expert by European Quality Certification Institute for the Engineering sector.

Course Description:

This course will present techniques designed to improve the effectiveness of asset management and integrity activities to ensure that physical assets perform their required functions, operate reliably and thereby support corporate goals and objectives. The session will also focus on new methods and techniques and participants will gain an understanding of best practices for the most critical aspects of asset integrity management.

Course Objective:

The objective of this course to assist asset integrity personnel with achieving maximum production capacity at the lowest life cycle cost while maintaining the long term integrity of their assets. Total Asset Integrity Management System concept will also be discussed.

Course Outline:

Course Overview:

A critical look at:

- Asset Management System Life Cycle
- Methods of Asset selection and prioritization
- Roles and responsibilities
- Set up an AIMS
- Review of ISO - 55000

Day 1

□ Background /Introduction □ Codes, standard and guideline for Asset Integrity Management (AIM). □ Design Integrity, Operational Integrity, Technical Integrity, Asset Integrity Management (AIM) and Total Asset Integrity Management System (TAIMS). □ Ensuring total plant integrity □ The AIMS / TAIMS Plan □ The Process - Integration - Asset life cycle □ The AIMS / TAIM Team - Composition and competencies - Responsibilities □ Workshop(s) or Case studies □ Small Quiz

Day 2

□ Integrity Management □ Asset Data Base - Management Information system - The data Required □ Cost Benefit - How much? □ Introduction to Risk Based Inspection - RBI □ Introduction to Pipe line Integrity Management □ Techniques of Asset Integrity. □ Intrusive and Non-intrusive approaches regarding AIMS / TAIMS □ Feasibility and cost benefit analysis for Asset Integrity Management Techniques. □ Some specific examples of Asset Integrity with appropriate techniques. □ Workshop(s) or Case studies □ Small Quiz

Day 3

□ Attributes of successful AIMS / TAIMS program. □ Attributes of Effective AIMS / TAIMS written procedure and policy. □ Asset Integrity Barriers □ Asset degradation and damage mechanisms □ Key performance indicators □ Methods of Assets selection and determination of Safety Critical of Equipment (SCE) for AIMS / TAIMS program □ Leadership Roles and Responsibilities for AIMS / TAIMS □ Contracts and procurement management for AIMS / TAIMS □ Workshop(s) or Case studies □ Small Quiz

The
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