

## Workshop on

# "Introduction to Risk based Inspection (RBI)"

4-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 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:

RBI - Risk-Based Inspection training course helps attendees understand and use RBI technology, develop a program, and learn which RBI procedures and working process comply with industry standards. The course covers risk determination and planning; assessment of damage mechanisms; and probability of failure, consequences of failure, and various risk determinations.

## Course Objective:

The objective of this course is to provide users with the basic minimum and recommended elements for developing, implementing, and maintaining a RBI program. It also provides guidance to owner-users, operators, and designers of pressure-containing equipment for developing and implementing an inspection program.

## Course Overview:

A critical look at:

- RBI methodology for a petrochemical or chemical plant,
- identify the degradation mechanism for a corrosion loop,
- determine the probability and consequence of a failure,
- set up a suitable inspection plan

### Day 1

- Introduction of Risk Based Inspection (RBI)
- Definition & Acronyms
- Basic Concepts of RBI, RCM, FMEA, SIL, LOPA, FFS, RCA and RAM
- What is RBI? CA?
- Linkage of above referred mechanism with AIM and RBI
- Small Quiz

### Day 2

- Scope of API 580 and API 581
- Assessing COF
- Risk Determination
- Risk Management Through Inspection
- Other Risk Mitigation Activities
- Small Quiz

### Day 3

- Deterioration Mechanisms
- Planning of the RBI Assessment
- Data and Information collection for RBI
- Deterioration mechanisms and Failure modes
- Small Quiz

### Day 4

- Assessing POF
- Re-assessment
- Roles , Responsibilities & Training
- RBI Documentation
- RBI and AIMS softwares
- Small Quiz



#### Contact Us

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