

Workshop on

"Inspection of Stationary Equipment in Oil & Gas Industry" 5-Days Program

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 to familiarize the maintenance staff with the basics and fundamentals of various techniques used for the inspection of Stationary Equipment in Oil & Gas Industry to ensure long term plant reliability, efficiency, safety and profitability.

Course Objective:

The objective of this course to assist asset integrity personnel with achieving basic understanding application, advantages and limitations of NDT techniques used for static equipment maintenance and construction.

Course Overview:

A critical look at:

- Types of NDT Techniques
- Application, advantages and limitations
- Relevant Standard(s)
- Application of appropriate inspection technique for relevant equipment.
- Correlation between different techniques.
- Scope and Limitations of techniques.
- Defining scope of work.
- Data acquisition and familiarity with Tools/Gadgets.
- Interpretation of data.
- Analysis and identification of faults.
- Suggestions on rectifications based on results.

Course Outline:

Day 1

- Introduction to various stationary equipment such as Piping, Pressure Vessels, and Tanks.
- Overview of different techniques used.
- Codes and standards.
- Workshop(s) or Case studies
- Small Quiz

Day 2

- Dye Penetrant Testing (DPT)
- Magnetic Particle Inspection (MPI)
- Ultrasonic thickness gauging (UTG)
- Workshop(s) or Case studies
- Small Quiz

Day 3

- Long-Range Ultrasonic Testing (LRUT)
- Phased Array Ultrasonic Testing (PAUT)
- Ultrasonic A-Scanning
- Workshop(s) or Case studies
- Small Quiz

Day 4

- Ultrasonic C-Scanning (Corrosion Mapping)
- Time of flight diffraction (ToFD)
- Surface Eddy Current Testing
- Workshop(s) or Case studies
- Small Quiz

Day 5

- Magnetic Flux Leakage Inspection (MLF)
- Vacuum Box Testing
- External Corrosion Direct Assessment (ECDA)
- Internal Corrosion Direct Assessment (ICDA)
- Workshop(s) or Case studies
- Small Quiz

Contact Us

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