

# € TRAINING

Service Inspection and Testing Skills For  
Service Departments & Industries





# Service Inspection and Testing Skills For Service Departments & Industries

## Introduction:

This is a comprehensive career development program intended for those seeking job-related skills in Inspection of Process Industry units for Maintenance, Operational Condition, Corrosion, Safety, Quality Assurance, and Quality Control.

This program provides a thorough grounding in these areas including "How to do" and "How not to do". Coverage includes Technical Issues, Methodology Issues, Legal/Contractual Issues, Compliance with Standards, and Quality Assurance Practices ISO9001:2010.

Full Technological and Management Aspects of Process Industry Inspections and Testing to International Standards.

You will also gain skills in applying the Best Worldwide Practices in :

- Planning
- Quality Assurance
- Technology
- Management

## Course Objectives:

At the end of this course, the participants will be able to:

- Understand the added value of asset & maintenance management to the business process
- Explain how maintenance audits are related to the asset management framework and why they are beneficial
- Understand the basic principles of maintenance audits & site inspections
- Apply assessment techniques to identify performance gaps and improvement potential
- Benchmark their maintenance organization against international world-class standards
- Set up a concrete implementation plan based on assessment results

## Targeted Audience:

- All professionals involved in asset & maintenance management auditing
- Quality & Compliance Managers
- Lead Auditors & Audit Team Members
- Operations & Maintenance professionals
- Asset Owners & Asset Managers
- Maintenance Engineers & Business Improvement Leaders

## Course Outlines:

### Unit 1:

- Inspection and Test Terminology
- Requirements for effective Inspection, Measuring Test Equipment Use

- Inspection, Measuring Test Equipment
- Acquisition
- Control
- Calibration including traceability
- Maintenance
- Demonstration of Conformance to requirements

## Unit 2:

- Methodologies Technologies
  - Best Industry Practices
  - Latest Tools and Techniques
  - Management Systems
- Understanding and Interpreting Practical Requirements...
  - Standards and Codes
  - Drawings
  - Specifications

## Unit 3:

- Maintaining CALIBRATION STATUS OF TEST MEASURING EQUIPMENT TO:
- Manufacturer Requirements
- ISO-9000 Requirements
- Industry Standards
- Calibration Awareness
- Corrective Action Analysis - Inspection, Measuring Test

## Unit 4:

- Usual Causes of Errors
- Calibration Certificates
- Calculating Uncertainty of Measurements

## Unit 5:

Case Studies selected case studies will depend on participant profile and job requirements

- Welding Inspection Testing
- Petrochemical Plant Equipment Inspection Testing
- Equipment Inspection Testing
- Pump Inspection
- First Entry Inspection
- Periodic Inspections
- Safety During Inspection Testing
- Reporting