



*Training Course:
Process Industry Inspection & Testing Skills*

*21 - 25 March 2027
Cairo (Egypt)*

Training Course: Process Industry Inspection & Testing Skills

Training Course code: EN9268 From: 21 - 25 March 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Inspection and testing are critical functions in process industries to ensure equipment integrity, operational safety, and compliance with international standards. Effective inspection practices help detect defects early, prevent failures, and maintain reliability across industrial assets.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to perform inspection and testing activities in process industries, covering methods, standards, and real-world applications.

Course Objectives

By the end of this program, participants will be able to:

- Understand inspection and testing principles in process industries
- Identify inspection requirements for equipment and systems
- Apply non-destructive testing NDT techniques
- Interpret inspection results and evaluate equipment condition
- Ensure compliance with industry standards API, ASME, ISO
- Perform quality control and verification procedures
- Identify defects and assess their impact
- Improve asset integrity and operational reliability

Target Audience

This program is designed for:

- Inspection and NDT Engineers
- Mechanical and Integrity Engineers
- Quality Control and Assurance Professionals
- Maintenance and Reliability Engineers
- Oil & Gas and Process Industry Personnel
- Technical staff involved in inspection and testing

Outline

Day 1: Fundamentals of Inspection and Testing

- Overview of inspection in process industries
- Types of inspection visual, NDT, destructive
- Inspection planning and procedures
- Standards and codes API, ASME, ISO
- Safety considerations

Day 2: Non-Destructive Testing NDT Methods

- Principles of NDT techniques
- Ultrasonic testing UT
- Radiographic testing RT
- Magnetic particle and dye penetrant testing
- Selection of NDT methods

Day 3: Inspection of Equipment and Systems

- Inspection of pressure vessels and piping
- Rotating equipment inspection
- Corrosion and material degradation
- Welding inspection basics
- Inspection documentation

Day 4: Testing and Quality Control

- Pressure testing hydrostatic and pneumatic
- Leak testing and performance verification
- Calibration and measurement tools
- Quality assurance procedures
- Compliance verification

Day 5: Defect Analysis, Reporting, and Case Studies

- Identifying defects and failure modes
- Fitness-for-service FFS concepts
- Reporting and documentation
- Root cause analysis RCA
- Case studies and real-world applications

Registration form on the Training Course: Process Industry Inspection & Testing Skills

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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