

€ TRAINING

Industrial Construction and Maintenance
Inspection Skills



8 - 12 September 2024
Cairo (Egypt)



Industrial Construction and Maintenance Inspection Skills

REF: O1020 DATE: 8 - 12 September 2024 Venue: Cairo (Egypt) - Fee: 4465 Euro

Introduction:

This training program is designed to equip participants with critical skills and knowledge to perform effective inspections in industrial construction and maintenance projects. It empowers them to enhance their inspection capabilities and contribute to the successful execution of industrial projects.

Program Objectives:

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

- Understand the principles of industrial construction and maintenance inspection.
- Master various inspection techniques and tools.
- Learn how to adhere to safety and regulatory standards.
- Develop skills to identify and address inspection challenges.
- Implement best practices for continuous improvement in inspection processes.

Target Audience:

- Construction and maintenance inspectors.
- Quality assurance and quality control professionals.
- Maintenance engineers and technicians.
- Plant managers and operations personnel.
- Professionals seeking to enhance their inspection skills in industrial settings.

Program Outline:

Unit 1:

Principles of Industrial Inspection:

- Understanding Industrial Construction and Maintenance.
- Key Roles and Responsibilities of Inspectors.
- Importance of Inspection in Quality Assurance.

- Basic Inspection Tools and Equipment.
- Documentation and Reporting Standards.

Unit 2:

Inspection Techniques and Tools:

- Visual Inspection Methods.
- Dimensional and Geometric Tolerancing.
- Use of Inspection Gauges and Calipers.
- Ultrasonic Testing and Applications.
- Magnetic Particle and Dye Penetrant Testing.

Unit 3:

Safety and Regulatory Standards:

- Overview of Industrial Safety Standards.
- Compliance with OSHA, ANSI, and ISO Standards.
- Safety Protocols for Inspectors.
- Legal and Ethical Considerations.
- Case Studies on Safety Compliance in Inspections.

Unit 4:

Identifying and Resolving Inspection Challenges:

- Common Defects in Construction and Maintenance.
- Techniques for Detecting Hidden Issues.
- Root Cause Analysis for Defects.
- Developing and Implementing Corrective Actions.
- Real-World Examples of Inspection Challenges and Solutions.

Unit 5:



Best Practices and Continuous Improvement:

- Implementing Best Practices in Inspection Processes.
- Performance Metrics and Evaluation.
- Training and Development for Inspection Teams.
- Leveraging Technology in Inspections.
- Future Trends in Industrial Inspection.