



Maintenance & Reliability Management

Inspection & Maintenance Mastery

Course Introduction

Facilities inspections are critical for ensuring the safety, efficiency, and regulatory compliance of buildings and infrastructure. This course provides a comprehensive understanding of inspection methodologies, tools, and best practices to identify hazards, maintenance issues, and operational inefficiencies in various types of facilities. Participants will learn to conduct systematic inspections, document findings, and implement corrective actions.

Target Audience

- Maintenance & Reliability Engineers – Ensuring asset integrity and performance.
- Inspection & Quality Control Professionals – Conducting compliance inspections.
- Maintenance Managers & Supervisors – Leading preventive and corrective maintenance.
- Plant & Facility Managers – Managing maintenance strategies for efficiency.
- Health, Safety & Compliance Officers – Ensuring regulatory adherence.

Learning Objectives

- Understand the fundamentals of facilities inspections and their importance.
- Identify key areas and components to inspect in different facility types.
- Apply proper inspection techniques and use relevant tools.
- Recognize safety and compliance requirements.
- Document and report inspection findings effectively.

Course Outline

- **01 DAY ONE**

Introduction to Facilities Inspections

- Purpose and importance of facilities inspections
- Types of facilities and inspection needs (commercial, industrial, residential)
- Inspection roles and responsibilities
- Key regulations and compliance requirements

- **02 DAY TWO**

Inspection Planning and Methodologies

- Pre-inspection planning and risk assessment
- Common inspection checklists and documentation
- Tools and technology used in facility inspections (thermal cameras, drones, AI analytics)
- Scheduling and frequency of inspections

- **03 DAY THREE**

Structural and Safety Inspections

- Building envelope assessment (roof, walls, foundation)
- Structural integrity checks
- Fire safety inspections (alarms, sprinklers, emergency exits)
- Electrical and HVAC system inspections

- **04 DAY FOUR**

Operational and Maintenance Inspections

- Plumbing and water system inspections
- Energy efficiency and sustainability assessments
- Equipment and machinery condition monitoring

- Identifying maintenance needs and preventive strategies
- **05 DAY FIVE**

Reporting, Compliance, and Hands-On Practice

- Documentation and reporting best practices
- Analyzing inspection findings and prioritizing corrective actions
- Regulatory compliance and industry standards
- Hands-on facility walkthrough and inspection exercise

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 11, 2025	May 15, 2025	5 days	4250.00 \$	KSA - Riyadh
Sept. 15, 2025	Sept. 19, 2025	5 days	2150.00 \$	Virtual - Online
Nov. 3, 2025	Nov. 7, 2025	5 days	5950.00 \$	USA - Los Angeles