

# € TRAINING

Risk Based Strategies For Inspection and  
Maintenance



22 - 26 December 2024  
Online



# Risk Based Strategies For Inspection and Maintenance

REF: O1018 DATE: 22 - 26 December 2024 Venue: Online - Fee: 2500 Euro

## Introduction:

This training program is designed to provide participants with essential skills and knowledge to develop and implement risk-based approaches in inspection and maintenance activities. It empowers them to make informed decisions that mitigate risks and extend the lifespan of equipment and infrastructure.

## Program Objectives:

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

- Understand the principles of risk-based inspection and maintenance.
- Learn how to identify and assess risks in industrial environments.
- Develop strategies for prioritizing inspection and maintenance activities.
- Gain proficiency in using risk assessment tools and techniques.
- Implement best practices for optimizing maintenance and ensuring safety.

## Target Audience:

- Maintenance engineers and technicians.
- Inspection and quality assurance professionals.
- Plant managers and operations personnel.
- Risk management professionals.
- Engineers involved in asset management and reliability.

## Program Outline:

### Unit 1:

#### Principles of Risk-Based Inspection and Maintenance:

- Introduction to Risk-Based Approaches.
- Benefits of Risk-Based Strategies.
- Key Components of Risk Management.

- Framework for Risk-Based Inspection and Maintenance.
- Regulatory and Industry Standards.

## Unit 2:

### Risk Identification and Assessment:

- Techniques for Identifying Risks.
- Qualitative and Quantitative Risk Assessment Methods.
- Failure Modes and Effects Analysis FMEA.
- Risk Matrix and Risk Prioritization.
- Tools for Risk Assessment.

## Unit 3:

### Prioritizing Inspection and Maintenance Activities:

- Criteria for Prioritizing Inspections.
- Developing Risk-Based Inspection Plans.
- Scheduling and Planning Maintenance Activities.
- Balancing Preventive and Predictive Maintenance.
- Case Studies on Effective Prioritization.

## Unit 4:

### Implementing Risk-Based Strategies:

- Integrating Risk Management into Inspection Processes.
- Developing Risk Mitigation Plans.
- Training and Skill Development for Implementation.
- Monitoring and Reviewing Risk-Based Programs.
- Real-World Examples and Best Practices.

## Unit 5:



## Optimization and Continuous Improvement:

- Analyzing Inspection and Maintenance Data.
- Performance Metrics and Key Performance Indicators KPIs.
- Continuous Improvement in Risk-Based Programs.
- Leveraging Technology and Software Solutions.
- Future Trends in Risk-Based Inspection and Maintenance.