PARTNERS IN KNOWLEDGE UK LTD
Suite No. 129
295 Chiswick High Road
LONDON W4 4HH



# Essential Knowledge & Skills for Effectively Inspecting Industrial Equipment

PIK806-0827 DZ-A-1

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| **Place** | : Algiers | **Venue** | : Holiday Inn (02 Rte de Ouled Fayet, Chéraga 16002, Algiers) - TBC | | |
| **Start Date** | : 30-08-2027 | **End Date** | : 03-09-2027 | **PPP** | : £4150 |

# Essential Knowledge & Skills for Effectively Inspecting Industrial Equipment

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**If you can't train them, you can't blame them!**

## Short Description:

The training program in Industrial Inspection and Corrosion Management aims to equip professionals with essential knowledge and skills for effectively inspecting industrial equipment. This program focuses on identifying potential defects and assessing the integrity of machinery, which is critical for maintaining operational safety. By learning advanced inspection techniques and methodologies, participants will gain a comprehensive understanding of the factors that contribute to equipment wear and failure, thus enhancing their ability to conduct thorough evaluations. In addition to inspection skills, the program emphasises the importance of corrosion management in prolonging the lifespan of industrial assets. Attendees will explore various corrosion prevention methods and strategies, empowering them to implement effective maintenance plans. This proactive approach not only improves the reliability of equipment but also fosters a safer working environment by mitigating the risks associated with corrosion. Ultimately, this training program is instrumental in promoting the safety, reliability, and longevity of industrial infrastructure.

## Course Overview:

### PROGRAM OBJECTIVES

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

- Understand the principles of industrial inspection.
- Recognise best practices in industrial inspection.
- Develop skills in identifying corrosion.
- Assess the severity of corrosion.
- Learn techniques for corrosion prevention.
- Explore methods for corrosion control.
- Gain insights into the latest technologies for effective corrosion management.

### TARGET AUDIENCE

- Inspection Engineers.
- Maintenance Technicians.
- Corrosion Engineers.
- Plant Managers.
- Quality Control Professionals.
- Industrial Safety Officers.
- Safety Compliance Inspectors.

## Program Outline:

### DAY 1: Fundamentals of Industrial Inspection

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1. Introduction to the core concepts and methodologies of industrial inspection.
2. Overview of compliance requirements and industry standards for inspections.
3. Exploration of various inspection techniques: visual inspection, non-destructive testing (NDT), and advanced methodologies.
4. Approaches for effectively planning and organising inspections.
5. Review of case studies showcasing exemplary industrial inspection practices.

## DAY 2: Understanding Corrosion and Its Effects

1. Basics of corrosion types, causes, and processes involved.
2. The impact of corrosion on industrial equipment and infrastructure.
3. Methods for identifying and evaluating corrosion.
4. Assessment and analysis of corrosion rates.
5. Practical exercises for identifying and assessing corrosion.

## DAY 3: Methods for Corrosion Prevention and Management

1. Approaches for reducing corrosion in industrial environments.
2. Use of protective coatings, inhibitors, and cathodic protection methods.
3. Factors to consider in material selection and design to improve corrosion resistance.
4. Implementing maintenance schedules to control corrosion.
5. Case studies highlighting successful corrosion prevention strategies.

## DAY 4: Enhanced Strategies for Corrosion Oversight

1. Developing and implementing corrosion management programs.
2. Integrating corrosion management into asset integrity frameworks.
3. Utilising data and technology for proactive corrosion monitoring.
4. Scheduling inspections and maintenance based on risk evaluations.
5. Group collaboration activity.

## DAY 5: Case Studies and Best Practices in Corrosion Oversight

1. Analysis of real-life case studies in managing industrial corrosion.
2. Lessons learned from significant corrosion incidents.
3. Best practices for continuous improvement in corrosion management.
4. Emerging trends and advancements in corrosion management.
5. Roundtable discussion focused on industry challenges and possible solutions.