

## Inspection and Integrity DP-MPI

*Barcelona (Spain)*

*30 September - 4 October 2024*

UK Training

# PARTNER



## Inspection and Integrity DP-MPI

Code: OG28 From: 30 September - 4 October 2024 City: Barcelona (Spain) Fees: 4700 Pound

### Introduction

Welcome to the Inspection NDT-DP-MPI Training course! This comprehensive training program is designed to provide participants with a solid foundation in Non-Destructive Testing NDT techniques, with a focus on Dye Penetrant Testing DP and Magnetic Particle Inspection MPI. The course aims to equip attendees with the essential knowledge and practical skills required to effectively perform inspections, identify defects, and ensure the structural integrity of various materials and components.

### Course Objectives

- Introduce NDT Techniques
- Fundamental Principles
- Hands-on Proficiency
- Defect Recognition
- Safety Guidelines
- Quality control and assurance professionals
- NDT technicians and inspectors
- Engineers and technicians in manufacturing industries
- Maintenance and service personnel
- Anyone seeking to enhance their skills in NDT techniques

### Course Outlines

#### Day 1

##### Introduction to NDT

- Importance and applications of NDT techniques
- Overview of various NDT methods
- Basic principles of DP and MPI



## Day 2

### Dye Penetrant Testing DP

- Penetrant materials and their properties
- Steps involved in DP inspection
- Interpretation of DP results
- Hands-on DP demonstration and practice

## Day 3

### Magnetic Particle Inspection MPI

- Magnetic fields and principles of MPI
- Types of magnetic particles and carriers
- Conducting MPI inspections
- Hands-on MPI demonstration and practice

## Day 4

### Defect Characterization

- Understanding different types of defects
- Factors influencing defect visibility
- Interpreting defect indications
- Case studies and real-world examples

## Day 5

### Safety and Certification

- Safety precautions during NDT inspections
- Environmental considerations
- Overview of certification standards and requirements



- Final assessment and Q&A session



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