BLACKBIRD FOR TRAINING

Inspection and Integrity DP-MPI

Kuala Lumpur (Malaysia)

20 - 24 October 2025

Inspection and Integrity DP-MPI

Code: OG28 From: 20 - 24 October 2025 City: Kuala Lumpur (Malaysia) Fees: 4900 Pound

Introduction

Welcome to the Inspection NDT-DP-MPI Training Course! This comprehensive training program aims to provide participants with a solid foundation in Non-Destructive Testing NDT techniques, focusing on Dye Penetrant Testing DP and Magnetic Particle Inspection MPI. The course is designed to equip attendees with the essential knowledge and practical skills required to perform inspections effectively, identify defects, and ensure the structural integrity of various materials and components. Participants will learn about the benefits of MPI, the definition of MPI, and the properties of MPI materials, as well as how to integrate MPI techniques into their inspection plans for global application.

Course Objectives

- Introduce NDT Techniques: Familiarize participants with Non-Destructive Testing methods and their importance, highlighting how MPI and DP can enhance product safety and reliability.
- Fundamental Principles: Explore the basic concepts behind DP and MPI, including what MPI is and the meaning of MPI inspection, to establish a solid theoretical foundation.
- Hands-on Proficiency: Develop practical skills in conducting Dye Penetrant and Magnetic Particle inspections, with a focus on understanding MPI advantages and effective MPI implementation.
- Defect Recognition: Understand different types of defects and the factors influencing their visibility, enhancing the ability to interpret inspection results accurately.
- Safety Guidelines: Learn about safety precautions during NDT inspections, emphasizing the importance of certification standards and requirements related to MPI.

Course Outlines

Day 1: Introduction to NDT

- Importance and applications of NDT techniques, emphasizing how MPI can enhance product integrity.
- Overview of various NDT methods and the fundamental principles of MPI and DP.

Day 2: Dye Penetrant Testing DP

- Examination of penetrant materials and their properties.
- Steps involved in DP inspection and how to interpret DP results effectively.

Day 3: Magnetic Particle Inspection MPI

- Study of magnetic fields and the principles of MPI.
- Types of magnetic particles and carriers used in MPI, along with conducting MPI inspections.

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Day 4: Defect Characterization

- Understanding different types of defects and factors influencing their visibility.
- Case studies and real-world examples to enhance understanding of defect indications.

Day 5: Safety and Certification

- Safety precautions during NDT inspections.
- Overview of certification standards and requirements related to MPI, guiding participants toward obtaining recognized MPI certificates.

Conclusion

At the end of this course, participants will have a deep understanding of NDT techniques and MPI inspections, along with the knowledge necessary to apply these skills effectively in various work environments. This training will not only enable them to perform accurate inspections but also ensure the safety and integrity of materials and components. Additionally, they will learn how to develop an integrated MPI plan to assure quality within enterprises, making them valuable assets in their respective fields.

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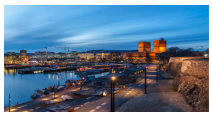
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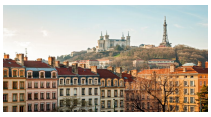
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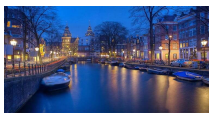
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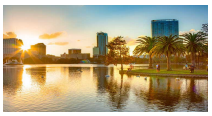
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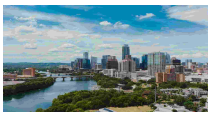
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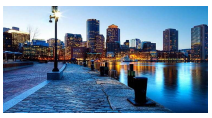
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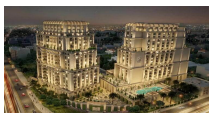
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