



*Training Course:
Non-Destructive Testing (NDT) Training with DP
and MPI*

*30 May - 3 June 2027
Cairo (Egypt)*

Training Course: Non-Destructive Testing (NDT) Training with DP and MPI

Training Course code: EN235136 From: 30 May - 3 June 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Non-Destructive Testing NDT is essential for ensuring the integrity, reliability, and safety of materials and structures without causing damage. Dye Penetrant DP and Magnetic Particle Inspection MPI are widely used methods for detecting surface and near-surface defects in industrial components, particularly in oil & gas, construction, and manufacturing sectors.

This program, designed by Global Horizon Training Center, provides participants with the practical knowledge and technical skills required to perform DP and MPI inspections in accordance with international standards and best practices.

Course Objectives

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

- Understand the principles and applications of NDT methods
- Apply Dye Penetrant DP testing techniques for surface defect detection
- Perform Magnetic Particle Inspection MPI for ferromagnetic materials
- Identify types of defects and discontinuities in materials
- Prepare surfaces and select appropriate testing materials
- Interpret inspection results and evaluate findings
- Follow safety procedures and quality standards in NDT
- Ensure compliance with industry codes and inspection requirements

Target Audience

This program is designed for:

- NDT Technicians and Inspectors
- Mechanical and Quality Engineers
- Maintenance and Reliability Engineers
- Welding and Fabrication Supervisors
- Oil & Gas and Industrial Inspection Personnel
- Professionals seeking certification or skill enhancement in NDT

Outline

Day 1: Fundamentals of NDT and Inspection Methods

- Introduction to Non-Destructive Testing NDT
- Overview of inspection methods and applications
- Types of material defects and discontinuities
- Safety practices and standards ASNT, ISO
- Inspection procedures and documentation

Day 2: Dye Penetrant Testing DP Principles and Techniques

- Principles of liquid penetrant inspection
- Types of penetrants and developers
- Surface preparation and cleaning methods
- Inspection procedures and dwell times
- Advantages, limitations, and applications

Day 3: Practical DP Inspection and Evaluation

- Step-by-step DP inspection process
- Identifying and interpreting indications
- Common errors and troubleshooting
- Acceptance criteria and reporting
- Hands-on case scenarios

Day 4: Magnetic Particle Inspection MPI Principles

- Principles of magnetism and MPI
- Types of magnetic fields and equipment
- Dry and wet particle methods
- Surface and near-surface defect detection
- Safety considerations in MPI

Day 5: MPI Application, Integration, and Case Studies

- MPI inspection procedures and techniques
- Interpretation of indications and defect evaluation
- Comparison between DP and MPI methods
- Integration into quality control programs
- Case studies and real-world applications

Registration form on the Training Course: Non-Destructive Testing (NDT) Training with DP and MPI

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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