

TRINITY NDT WELDSOLUTIONS PVT. LTD.

Aerospace and Advanced NDT | Centre of Excellence in Welding | Training

NDT Training Outline

Eddy Current Testing
Level II Courses

Brochure

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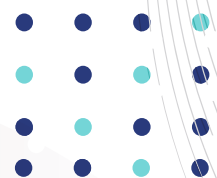
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Eddy Current Testing Course Overview

The course is intended to provide thorough knowledge in the principles of Eddy Current Testing (ET) and fundamentals of materials and processes such that the trainee would be able to identify suitability of ET for the material and inspection techniques, develop techniques and procedures, analyze the test results and document the same, and to become familiar with international codes, standards, and specifications.



Training & Certification as per Written Practice Framed to Requirements of ASNT SNT TC 1A Initial training & Experience

Training	Level I : 40 Hours	Level II: 40 Hours
Experience	Level I: 210 Hours	Level II: 630 Hours

Note: For Direct Level II, training and experience consists of the sum of the hours for Level I & 2

Course Contents Outline

ET Level I Training

1. Introduction to Eddy Current Testing
2. Principles and Electromagnetic Theory
3. Eddy Current Instrumentation
4. Readout Equipment and Mechanism
5. Eddy Current Sensing Elements
6. Flux Leakage Theory
7. Flux Leakage Sensing Equipment
8. Calibration Standard and Procedures

ET Level I Practicals

calibration of the instrument, Impedance Plane Display- Conductivity Curve, Conductivity – Sorting, Thickness Measurement Conductivity – Liftoff Measurement, Paint Layer Thickness Measurement and Surface Flaw Detection.

ET Level II Training

1. General knowledge, importance of NDT
2. Discontinuities in various product forms
3. Physical principles of Eddy Current Testing
4. Factors affecting eddy currents
5. Probe handling
6. Instrumentation, coils & probes
7. Display methods
8. Impedance plane basics
9. Inspection procedures
10. Presentation of test results, Codes and standards

ET Level II Practicals

Same as Level I + Complete calibration of Eddy current testing equipment for various types of probes, Discontinuity Detection and heat exchanger tube inspection

For more information, Contact us

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