

TRINITY NDT WELDSOLUTIONS PVT. LTD.

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

NDT Training Outline

Ultrasonic Testing
Level I, II Courses

Brochure

 **16000+ Certificates Awarded**

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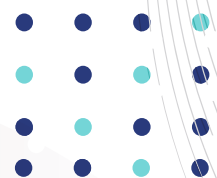
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TOP MSMEs '21
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Recipient of
Sreshta Udyama Seva Puraskar 2022
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Ultrasonic Testing Course Overview



This comprehensive Level I, II training program provides in-depth knowledge, principles, fundamentals of materials science, and inspection techniques. Participants will gain practical expertise to:

- Identify the suitability of UT for various materials and inspection applications
- Develop and implement effective testing techniques and procedures
- Analyze test results with precision and accuracy
- Prepare comprehensive inspection documentation as per relevant codes, standards, and specifications

The program combines theoretical instruction with extensive hands-on training.

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 of the hours for Level I & 2

Course Contents Outline

UT Level I Training

1. Properties of Sound Waves,
2. Generation of Ultrasonic waves,
3. Interaction of ultrasound with matter and boundaries,
4. Types of Probes,
5. Test Methods,
6. Test Equipment,
7. Instrumentation,
8. Test Variables,
9. Inspection procedures,
10. Types of Discontinuities

UT Level I Practicals

Complete calibration of ultrasonic flaw detection equipment for various types of transducers, Discontinuity Detection, Locating the flaw and Size Estimation Techniques

UT Level II Training

Review of Level I Course

1. In-depth study of test Variables,
2. Immersion Techniques,
3. Principles of DGS / DAC Methods,
4. Echo dynamics for Reflector Evaluation,
5. Codes, standards and Procedures
6. Acceptance Standards,
7. Evaluation of Test Equipment,
8. Manufacturing Process and Discontinuities

UT Level II Practicals

Same as for Level I course + Interpretation, Evaluation of Indications using DGS/DAC. Evaluation Methods and Echo Dynamics, Beam Profile and Plotting

For more information, Contact us

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