



Engineering Quality

10 Candidates
ONLY in a
Batch

*First Come First Served



4 Days Training Course on Phased Array Ultrasonic Testing (PAUT)

04 - 07, February 2026

On Olympus MX2/x3

Organized by

TRINITY NDT WELDSOLUTIONS PVT. LTD.

Aerospace and Advanced NDT | Centre of Excellence in Welding

Venue: Trinity NDT, Bangalore

Contact: +91 98441 29439 | 91413 39994

Last Date to Enroll: 20, January 2026

Visit Us: www.trinityndt.com

4 Days Training Course on PAUT

Program Outline

Day 1

PAUT Fundamentals & OmniScan Interface

Theory

- Review of Conventional UT vs PAUT (quick refresher)
- PAUT principles: beam steering, focusing, aperture
- Types of scans: Linear, Sectorial, Compound
- PAUT probes & wedges (Olympus probes overview)

OmniScan MX2 / X3

- Instrument overview: MX2 vs X3 (key differences)
- Hardware ports, probe & encoder connections
- Menu navigation & screen layout
- File structure & data storage

Practical

- Power-up & system checks
- Probe recognition & setup
- Basic scan visualization (A, B, S-scan)
- Simple live scanning on reference block

Day 2

Scan Setup & Calibration (MX2 / X3)

Theory

- Scan plan concept (angles, coverage, focal laws)
- Probe & wedge selection for weld inspection
- Calibration standards overview (V1, V2, custom blocks)

OmniScan MX2 / X3

- Wizard-based scan setup
- Law generation & angle range setup
- Wedge delay & velocity calibration
- Sensitivity calibration & TCG

Practical

- Complete calibration procedure on MX2 / X3
- Sectorial scan calibration
- Gate setup & optimization
- Verification of calibration

Day 3

Data Acquisition & Weld Inspection

Theory

- Weld configurations & typical defects
- PAUT response of weld defects
- Manual vs encoded scanning

OmniScan MX2 / X3

- Scan plan loading & execution
- Encoder setup & validation
- Real-time data monitoring
- Saving & recalling inspections

Practical

- Weld scanning on test specimens
- Data acquisition with encoder
- Defect detection & basic sizing
- Data review in OmniScan

Day 4

Data Analysis, Reporting & Assessment

Theory

- PAUT image interpretation (A, B, S-scan)
- Acceptance criteria (ASME / ISO – overview)
- Common PAUT errors & troubleshooting

OmniScan MX2 / X3

- Data analysis & measurement tools
- Screen capture & report preparation
- Data transfer & file management

Practical & Assessment

- Case studies (real weld defects)
- Practical assessment on OmniScan
- Theory assessment
- Discussion & Q&A

Course completion certificate

Fee Details per Candidate*

Rs.24,999 without certification

Rs.39,999 with certification as per SNT TC 1A

*GST Extra

For Special
Discount Fee
Call us.

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