



MAINTENANCE AND ENGINEERING | ME-026

Non-Destructive Testing Methods Overview

Contact

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Course content

Why Attend

Non-destructive testing detects defects without damaging components and is essential for inspection in oil and gas, power, aviation, construction and manufacturing.

This Aractech course provides an overview of NDT methods including visual, penetrant, magnetic particle, ultrasonic, radiography, eddy current and advanced techniques, their principles, applications, limitations and how to select and manage NDT. It is an awareness course and not an NDT certification.

Course Methodology

- Technical presentations
- Method comparison exercises
- Report reviews
- Case studies
- Group discussions

Course Objectives

- Explain NDT principles and applications
- Understand surface and volumetric methods
- Compare advantages and limitations of methods
- Select appropriate NDT techniques
- Interpret NDT reports
- Manage NDT contractors and quality

Target Audience

- Inspection engineers
- QA/QC staff

Course content

- Maintenance and integrity engineers
- Project engineers

Course outline

Detailed course outline

Day-by-day outline for Non-Destructive Testing Methods Overview.

Day 1 - NDT Fundamentals

- 09:00-09:45 | Purpose of NDT
- 09:45-10:30 | Defect types
- 10:30-11:00 | Standards
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Standards (continued)
- 11:45-12:30 | Personnel qualification
- 12:30-14:00 | Exercise: Inspection needs

Day 2 - Surface Methods

- 09:00-09:45 | Visual inspection
- 09:45-10:30 | Liquid penetrant
- 10:30-11:00 | Magnetic particle
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Magnetic particle (continued)
- 11:45-12:30 | Eddy current
- 12:30-14:00 | Workshop: Method selection

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Day 3 - Volumetric Methods

- 09:00-09:54 | Ultrasonic testing
- 09:54-10:48 | Radiography
- 10:48-11:00 | Phased array
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Phased array (continued)
- 12:12-13:06 | Digital radiography
- 13:06-14:00 | Safety considerations

Day 4 - Advanced Techniques

- 09:00-09:45 | TOFD
- 09:45-10:30 | Guided waves
- 10:30-11:00 | Acoustic emission
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Acoustic emission (continued)
- 11:45-12:30 | Thermography
- 12:30-14:00 | Case study: Advanced NDT application

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Day 5 - Managing NDT

- 09:00-09:54 | Selecting methods
- 09:54-10:48 | Contractors
- 10:48-11:00 | Report interpretation
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Report interpretation (continued)
- 12:12-13:06 | Quality assurance
- 13:06-14:00 | Capstone: NDT plan

Seminar dates

Available seminar dates

Live dates and pricing for Non-Destructive Testing Methods Overview generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Barcelona	Classroom	€2,815
14 - 18 December 2026	Paris	Classroom	€3,825
18 - 22 January 2027	Rome	Classroom	€3,460
15 - 19 February 2027	Kuala Lumpur	Classroom	€1,925
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	London	Classroom	€2,315
17 - 21 May 2027	Munich	Classroom	€3,225
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Cape Town	Classroom	€1,625
16 - 20 August 2027	Rome	Classroom	€3,460

Seminar dates

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18 - 22 October 2027	Barcelona	Classroom	€2,815
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20 - 24 December 2027	Munich	Classroom	€3,225
9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
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