



MAINTENANCE AND ENGINEERING | ME-025

Welding Inspection and Quality Control

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Course content

Why Attend

Weld quality is critical for the safety and reliability of structures, pipelines, vessels and equipment. Welding inspectors ensure procedures are followed and defects are detected.

This Aractech course covers welding processes, welding metallurgy basics, procedure and welder qualification, codes and standards, weld defects, visual inspection, NDT methods overview, documentation and quality control. It is an awareness course and not a certification.

Course Methodology

- Technical presentations
- Defect identification exercises
- Document reviews
- Case studies
- Group discussions

Course Objectives

- Explain welding processes and applications
- Understand welding metallurgy basics
- Review welding procedures and qualifications
- Identify weld defects and their causes
- Perform visual inspection and understand NDT
- Maintain welding quality documentation

Target Audience

- QA/QC inspectors
- Welding supervisors



Course content

- Mechanical engineers
- Fabrication managers

Course outline

Detailed course outline

Day-by-day outline for Welding Inspection and Quality Control.

Day 1 - Welding Processes

- 09:00-09:45 | Process types
- 09:45-10:30 | Equipment
- 10:30-11:00 | Consumables
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Consumables (continued)
- 11:45-12:30 | Applications
- 12:30-14:00 | Exercise: Process selection

Day 2 - Metallurgy and Procedures

- 09:00-09:54 | Metallurgy basics
- 09:54-10:48 | Heat input
- 10:48-11:00 | Preheat and PWHT
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Preheat and PWHT (continued)
- 12:12-13:06 | WPS and PQR
- 13:06-14:00 | Welder qualification

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Day 3 - Defects

- 09:00-09:45 | Defect types
- 09:45-10:30 | Causes
- 10:30-11:00 | Acceptance criteria
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Acceptance criteria (continued)
- 11:45-12:30 | Prevention
- 12:30-14:00 | Workshop: Defect identification

Day 4 - Inspection and NDT

- 09:00-09:45 | Visual inspection
- 09:45-10:30 | NDT methods
- 10:30-11:00 | Selecting methods
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Selecting methods (continued)
- 11:45-12:30 | Reports
- 12:30-14:00 | Case study: Weld failure

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Day 5 - Quality Control

- 09:00-09:54 | Inspection and test plans
- 09:54-10:48 | Documentation
- 10:48-11:00 | Traceability
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Traceability (continued)
- 12:12-13:06 | Audits
- 13:06-14:00 | Capstone: Welding QC plan

Seminar dates

Available seminar dates

Live dates and pricing for Welding Inspection and Quality Control 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	Munich	Classroom	€3,225
15 - 19 February 2027	Amsterdam	Classroom	€2,830
15 - 19 March 2027	Geneva	Classroom	€4,315
19 - 23 April 2027	Istanbul	Classroom	€1,978
17 - 21 May 2027	Vienna	Classroom	€3,225
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Cape Town	Classroom	€1,625
16 - 20 August 2027	Munich	Classroom	€3,225

Seminar dates

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Date	Location	Format	Fee
20 - 24 September 2027	Amsterdam	Classroom	€2,830
18 - 22 October 2027	Cape Town	Classroom	€1,625
15 - 19 November 2027	Istanbul	Classroom	€1,978
20 - 24 December 2027	Vienna	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
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

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Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
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