



QUALITY AND PRODUCTIVITY | QP-012

Quality Control and Inspection Techniques

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Course content

Why Attend

Quality control ensures that products and materials meet specifications before they reach customers. Effective inspection balances risk, cost and speed.

This Aractech course covers quality control principles, specifications and tolerances, inspection planning, sampling plans, measurement tools, visual and dimensional inspection, defect classification, non-conforming product control and quality records. Participants design inspection and sampling plans.

Course Methodology

- Practical presentations
- Sampling plan exercises
- Measurement demonstrations
- Defect classification workshop
- Group discussions

Course Objectives

- Explain quality control principles
- Interpret specifications and tolerances
- Plan inspections and sampling
- Use measurement tools correctly
- Classify defects and control non-conforming products
- Maintain quality records and reports

Target Audience

- Quality inspectors and technicians
- Quality control supervisors



Course content

- Production supervisors
- Supplier quality staff

Course outline

Detailed course outline

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

Day 1 - Quality Control Fundamentals

- 09:00-09:39 | QC versus QA
- 09:39-10:18 | Specifications
- 10:18-10:57 | Tolerances
- 10:57-11:00 | Inspection stages
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Inspection stages (continued)
- 12:05-12:43 | Quality plans
- 12:43-14:00 | Exercise: Reading specifications

Day 2 - Inspection Planning

- 09:00-09:39 | Inspection plans
- 09:39-10:18 | Critical characteristics
- 10:18-10:57 | First article inspection
- 10:57-11:00 | In-process inspection
- 11:00-11:30 | Coffee break
- 11:30-12:05 | In-process inspection (continued)
- 12:05-12:43 | Final inspection
- 12:43-14:00 | Workshop: Inspection plan

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Day 3 - Sampling

- 09:00-09:39 | Acceptance sampling
- 09:39-10:18 | Sampling plans
- 10:18-10:57 | AQL
- 10:57-11:00 | Sampling risks
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Sampling risks (continued)
- 12:05-12:43 | Records
- 12:43-14:00 | Exercise: Sampling plan design

Day 4 - Measurement and Defects

- 09:00-09:39 | Measurement tools
- 09:39-10:18 | Calibration
- 10:18-10:57 | Visual inspection
- 10:57-11:00 | Defect classification
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Defect classification (continued)
- 12:05-12:43 | Non-conforming product
- 12:43-14:00 | Exercise: Defect classification

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Day 5 - Reporting and Improvement

- 09:00-09:45 | Quality records
- 09:45-10:30 | Inspection reports
- 10:30-11:00 | Trend analysis
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Trend analysis (continued)
- 11:45-12:30 | Feedback to production
- 12:30-13:15 | Improvement
- 13:15-14:00 | Capstone: QC system review

Seminar dates

Available seminar dates

Live dates and pricing for Quality Control and Inspection Techniques generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Barcelona	Classroom	€2,815
7 - 11 December 2026	Istanbul	Classroom	€1,978
21 - 25 December 2026	London	Classroom	€2,315
18 - 22 January 2027	Barcelona	Classroom	€2,815
15 - 19 February 2027	Istanbul	Classroom	€1,978
15 - 19 March 2027	Amsterdam	Classroom	€2,830
19 - 23 April 2027	Paris	Classroom	€3,825
17 - 21 May 2027	Barcelona	Classroom	€2,815
21 - 25 June 2027	Geneva	Classroom	€4,315
19 - 23 July 2027	Munich	Classroom	€3,225

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20 - 24 September 2027	Istanbul	Classroom	€1,978
18 - 22 October 2027	London	Classroom	€2,315
15 - 19 November 2027	Barcelona	Classroom	€2,815
20 - 24 December 2027	Istanbul	Classroom	€1,978
16 - 20 November 2026	Online / Live	Online / Live	€1,815
7 - 11 December 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
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