



QUALITY AND PRODUCTIVITY | QP-031

Calibration Management Systems

Contact

+31 85 7444446
info@aractech.com
https://aractech.com

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Accurate measurement depends on properly calibrated instruments. Calibration failures can lead to defective products, safety risks, failed audits and regulatory penalties.

This Aractech course covers calibration principles, metrological traceability, calibration intervals, procedures and records, measurement uncertainty basics, out-of-tolerance management, calibration software and supplier management. Participants design a calibration management system.

Course Methodology

- Technical presentations
- Register and interval exercises
- Case studies
- Uncertainty examples
- Group discussions

Course Objectives

- Explain calibration and metrological traceability
- Build an instrument register and classify criticality
- Set and adjust calibration intervals
- Manage calibration procedures and records
- Handle out-of-tolerance results
- Manage calibration suppliers and systems

Target Audience

- Calibration and metrology staff
- Quality managers

Course content

- Maintenance and instrumentation technicians
- Laboratory managers

Course outline

Detailed course outline

Day-by-day outline for Calibration Management Systems.

Day 1 - Calibration Fundamentals

- 09:00-09:39 | Purpose of calibration
- 09:39-10:18 | Traceability
- 10:18-10:57 | Standards and requirements
- 10:57-11:00 | Calibration versus verification
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Calibration versus verification (continued)
- 12:05-12:43 | Terminology
- 12:43-14:00 | Exercise: Instrument inventory

Day 2 - Calibration Programmes

- 09:00-09:39 | Instrument registers
- 09:39-10:18 | Criticality
- 10:18-10:57 | Calibration intervals
- 10:57-11:00 | Interval adjustment
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Interval adjustment (continued)
- 12:05-12:43 | Labelling
- 12:43-14:00 | Workshop: Calibration programme

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Day 3 - Procedures and Uncertainty

- 09:00-09:39 | Calibration procedures
- 09:39-10:18 | Environmental conditions
- 10:18-10:57 | Uncertainty basics
- 10:57-11:00 | Acceptance criteria
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Acceptance criteria (continued)
- 12:05-12:43 | Records
- 12:43-14:00 | Exercise: Calibration certificate review

Day 4 - Out-of-Tolerance Management

- 09:00-09:34 | Impact assessment
- 09:34-10:08 | Product recall decisions
- 10:08-10:42 | Root cause
- 10:42-11:00 | Documentation
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Documentation (continued)
- 11:46-12:53 | Case study: Out-of-tolerance event
- 12:53-14:00 | Exercise: Impact assessment

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Day 5 - Managing the System

- 09:00-09:39 | Software tools
- 09:39-10:18 | External laboratories
- 10:18-10:57 | Accreditation
- 10:57-11:00 | Audits
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Audits (continued)
- 12:05-12:43 | Improvement
- 12:43-14:00 | Capstone: Calibration system design

Seminar dates

Available seminar dates

Live dates and pricing for Calibration Management Systems generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	London	Classroom	€2,315
21 - 25 December 2026	Istanbul	Classroom	€1,978
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Cape Town	Classroom	€1,625
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Rome	Classroom	€3,460
17 - 21 May 2027	Munich	Classroom	€3,225
21 - 25 June 2027	Amsterdam	Classroom	€2,830
19 - 23 July 2027	London	Classroom	€2,315
16 - 20 August 2027	Istanbul	Classroom	€1,978

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20 - 24 December 2027	Rome	Classroom	€3,460
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
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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

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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
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