



QUALITY AND PRODUCTIVITY | QP-024

Quality 4.0: Digital Tools for Quality Management

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Course content

Why Attend

Digital technologies are transforming quality management: connected sensors, automated inspection, analytics, digital quality systems and AI allow organisations to detect problems earlier and improve faster.

This Aractech course explains Quality 4.0 concepts, digital quality management systems, real-time data collection, automated inspection and machine vision, predictive quality analytics, digital document control, traceability, and change management for digital quality. Participants assess digital maturity and build a roadmap.

Course Methodology

- Technology overviews
- Case studies
- Maturity assessment
- Use-case workshops
- Roadmap development

Course Objectives

- Explain Quality 4.0 concepts and benefits
- Evaluate digital quality management systems
- Use real-time data and connected devices
- Understand automated inspection and machine vision
- Apply analytics for predictive quality
- Plan a digital quality roadmap

Target Audience

- Quality managers and engineers



Course content

- Digital transformation leaders
- Operations managers
- IT professionals supporting quality

Course outline

Detailed course outline

Day-by-day outline for Quality 4.0: Digital Tools for Quality Management.

Day 1 - Quality 4.0 Concepts

- 09:00-09:39 | Evolution of quality
- 09:39-10:18 | Industry 4.0 links
- 10:18-10:57 | Value of digital quality
- 10:57-11:00 | Maturity models
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Maturity models (continued)
- 12:05-12:43 | Barriers
- 12:43-14:00 | Exercise: Maturity assessment

Day 2 - Digital Quality Systems

- 09:00-09:39 | eQMS functionality
- 09:39-10:18 | Document control
- 10:18-10:57 | CAPA and audits
- 10:57-11:00 | Integration
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Integration (continued)
- 12:05-12:43 | Selection
- 12:43-14:00 | Workshop: System requirements

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Day 3 - Data and Inspection

- 09:00-09:39 | Connected sensors
- 09:39-10:18 | Machine vision
- 10:18-10:57 | Automated testing
- 10:57-11:00 | Traceability
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Traceability (continued)
- 12:05-12:43 | Data integrity
- 12:43-14:00 | Case study: Automated inspection

Day 4 - Analytics and AI

- 09:00-09:39 | Predictive quality
- 09:39-10:18 | Root cause analytics
- 10:18-10:57 | AI applications
- 10:57-11:00 | Dashboards
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Dashboards (continued)
- 12:05-12:43 | Limitations
- 12:43-14:00 | Lab: Quality data analysis

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Day 5 - Roadmap and Change

- 09:00-09:45 | Use-case prioritisation
- 09:45-10:30 | Skills
- 10:30-11:00 | Change management
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Change management (continued)
- 11:45-12:30 | Value measurement
- 12:30-13:15 | Scaling
- 13:15-14:00 | Capstone: Quality 4.0 roadmap

Seminar dates

Available seminar dates

Live dates and pricing for Quality 4.0: Digital Tools for Quality Management generated from the course details page.

Date	Location	Format	Fee
11 - 15 January 2027	Munich	Classroom	€3,225
8 - 12 February 2027	Geneva	Classroom	€4,315
8 - 12 March 2027	Barcelona	Classroom	€2,815
12 - 16 April 2027	Amsterdam	Classroom	€2,830
10 - 14 May 2027	London	Classroom	€2,315
14 - 18 June 2027	Munich	Classroom	€3,225
12 - 16 July 2027	Kuala Lumpur	Classroom	€1,925
9 - 13 August 2027	Amsterdam	Classroom	€2,830
13 - 17 September 2027	London	Classroom	€2,315
11 - 15 October 2027	Munich	Classroom	€3,225

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