



QUALITY AND PRODUCTIVITY | QP-023

Automotive Quality Core Tools

Contact

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

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Automotive suppliers must use a set of core quality tools to plan, validate and control products and processes. These tools are also widely adopted in other engineering industries.

This Aractech course explains advanced product quality planning, production part approval, failure mode and effects analysis, measurement system analysis and statistical process control, and how they connect across the product life cycle. Participants apply the tools to a case product.

Course Methodology

- Tool walkthroughs
- Case product exercises
- Templates
- Group work
- Discussions

Course Objectives

- Explain the automotive quality planning framework
- Apply advanced product quality planning phases
- Prepare production part approval submissions
- Use FMEA in product and process development
- Apply MSA and SPC in production
- Integrate core tools into quality management

Target Audience

- Quality engineers in automotive and engineering
- Supplier quality engineers



Course content

- Product and process engineers
- Production managers

Course outline

Detailed course outline

Day-by-day outline for Automotive Quality Core Tools.

Day 1 - Quality Planning Framework

- 09:00-09:39 | Automotive quality requirements
- 09:39-10:18 | Core tools overview
- 10:18-10:57 | Customer-specific requirements
- 10:57-11:00 | Cross-functional teams
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Cross-functional teams (continued)
- 12:05-12:43 | Planning timeline
- 12:43-14:00 | Exercise: Project plan

Day 2 - Advanced Product Quality Planning

- 09:00-09:30 | Planning phases
- 09:30-10:30 | Design outputs
- 10:30-11:00 | Process design
- 11:00-11:30 | Coffee break
- 11:30-12:00 | Process design (continued)
- 12:00-12:30 | Control plans
- 12:30-13:00 | Validation
- 13:00-14:00 | Workshop: Quality plan

Course outline

Detailed course outline

Day-by-day outline for Automotive Quality Core Tools.

Day 3 - FMEA

- 09:00-10:07 | Design FMEA
- 10:07-10:41 | Process FMEA
- 10:41-11:00 | Action priority
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Action priority (continued)
- 11:45-12:19 | Linkages
- 12:19-12:53 | Updating FMEAs
- 12:53-14:00 | Exercise: Process FMEA

Day 4 - PPAP, MSA and SPC

- 09:00-09:39 | PPAP elements
- 09:39-10:18 | Submission levels
- 10:18-10:57 | Measurement system analysis
- 10:57-11:00 | Statistical process control
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Statistical process control (continued)
- 12:05-12:43 | Capability
- 12:43-14:00 | Case study: PPAP rejection

Course outline

Detailed course outline

Day-by-day outline for Automotive Quality Core Tools.

Day 5 - Integration

- 09:00-09:45 | Linking core tools
- 09:45-10:30 | Change management
- 10:30-11:00 | Supplier development
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Supplier development (continued)
- 11:45-12:30 | Audits
- 12:30-13:15 | Continuous improvement
- 13:15-14:00 | Capstone: Core tools package

Seminar dates

Available seminar dates

Live dates and pricing for Automotive Quality Core Tools generated from the course details page.

Date	Location	Format	Fee
4 - 8 January 2027	London	Classroom	€2,315
1 - 5 February 2027	Kuala lumpur	Classroom	€1,925
1 - 5 March 2027	Istanbul	Classroom	€1,978
5 - 9 April 2027	London	Classroom	€2,315
7 - 11 June 2027	Frankfurt	Classroom	€1,875
5 - 9 July 2027	Istanbul	Classroom	€1,978
2 - 6 August 2027	Munich	Classroom	€3,225
6 - 10 September 2027	Barcelona	Classroom	€2,815
1 - 5 November 2027	Kuala lumpur	Classroom	€1,925
6 - 10 December 2027	Amsterdam	Classroom	€2,830

Seminar dates

Available seminar dates

Live dates and pricing for Automotive Quality Core Tools generated from the course details page.

Date	Location	Format	Fee
4 - 8 January 2027	Online / Live	Online / Live	€1,815
1 - 5 February 2027	Online / Live	Online / Live	€1,815
1 - 5 March 2027	Online / Live	Online / Live	€1,815
5 - 9 April 2027	Online / Live	Online / Live	€1,815
7 - 11 June 2027	Online / Live	Online / Live	€1,815
5 - 9 July 2027	Online / Live	Online / Live	€1,815
2 - 6 August 2027	Online / Live	Online / Live	€1,815
6 - 10 September 2027	Online / Live	Online / Live	€1,815
1 - 5 November 2027	Online / Live	Online / Live	€1,815
6 - 10 December 2027	Online / Live	Online / Live	€1,815