Management system standards

IATF 16949:2016 — Automotive Quality

Two days to understand what IATF 16949:2016 adds to ISO 9001 for suppliers to the automotive industry: customer-specific requirements, product safety, automotive quality tools, process and product audits, contingency plans. The exercises cover your parts, your control plans and your customer complaints, through to the gap analysis of your site.

Duration : 2 days

Objectives

1. Explain how IATF 16949:2016 fits with ISO 9001 and the expectations of the automotive supply chain
2. Identify your customers' specific requirements and allocate them across your processes
3. Link the automotive quality tools (APQP, FMEA, control plan, MSA, SPC, PPAP) to the requirements of the standard
4. Apply the requirements on product safety, contingency plans, maintenance and error-proofing
5. Assess the gap between your site and the standard and prioritise actions

Programme

Day 1 — morning

• The automotive chain and its expectations: OEMs, supplier tiers, customer-specific requirements
• How IATF 16949:2016 fits with ISO 9001
• Context, leadership, corporate responsibility, product safety
• Risks, contingency plans, quality objectives

Day 1 — afternoon

• Resources: competence, awareness, qualification of internal auditors, work environment
• Monitoring and measuring equipment, measurement system analysis, laboratories
• Product and process design and development, quality planning (APQP)
• Exercise: specific requirements of one of your customers and how they are addressed

Day 2 — morning

• Supplier control and supply chain development
• Production: control plan, FMEA, maintenance, error-proofing, change management
• Nonconforming products, rework and repair, customer notification
• Production part approval (PPAP) and validation of changes

Day 2 — afternoon (workshop)

• Internal audits: system audit, manufacturing process audit, product audit
• Problem solving, cause analysis, handling of warranty returns
• Workshop: gaps in your site against the standard and action plan
• Knowledge test and presentation of the work

Teaching methods

• Guided reading of the requirements, in parallel with those of ISO 9001
• Exercises on your control plans, your FMEAs and your customer complaints
• Study of a real customer-specific requirement brought by participants
• Mid-course quiz and final test

Assessment and documents

Mid-course quiz and knowledge test, post-course evaluation at D+1. Numbered training certificate, verifiable online, for each participant; the company receives the training report and the gap analysis from the workshop.

Bilingual materials for every participant; each classroom course comes with its digital twin on OmniLearn.

Good to know

The tools are covered in depth in “Automotive Core Tools: FMEA, MSA, SPC”, “APQP — Product Quality Planning” and “PPAP — Part Approval”. For process audits, see “VDA 6.3 Process Audit”.

Practical information

Duration	2 days
Audience	Management, quality managers, supplier quality and process engineers, production and maintenance managers of automotive suppliers
Prerequisites	Knowledge of ISO 9001 desirable
Group size	Groups of 6 to 12 participants, in-company
Format	In-company, face to face on your site
Language	French, Darija or English; bilingual materials
Funding	OFPPT special training contracts (TFP), GIAC, Maroc PME: we prepare the applications with you, at no extra cost.
Programme customisation	Programme adapted to your procedures, your equipment and your audience

Frequently asked questions

Does IATF 16949:2016 replace ISO 9001?

No. IATF 16949:2016 is not used on its own: it supplements ISO 9001, whose requirements must also be met. The course recalls the ISO 9001 requirements that help in reading the automotive standard.

What place do the core tools have?

The tools (APQP, PPAP, FMEA, MSA, SPC) are presented to the extent the standard requires them or refers to them. Their practice is covered by dedicated courses in the catalogue.

What are customer-specific requirements?

They are the requirements particular to each vehicle manufacturer or principal, which are added to the standard and audited with it. The course shows how to list them and allocate them to your processes.

Who should attend?

Management, quality and supplier quality managers, process and methods engineers, production and maintenance managers of companies that supply the automotive industry or want to.