Management system standards

EN 9100:2018 — Aerospace Quality

Two days to master what EN 9100:2018 adds to ISO 9001 for companies in aerospace, space and defence: product safety, configuration management, prevention of counterfeit parts, control of operational risks, human factors, first article inspection. The exercises draw on your manufacturing files, your nonconformities and your principals' requirements.

Duration : 2 days

Objectives

1. Explain how EN 9100:2018 fits with ISO 9001 and the place of the standard in the aerospace supply chain
2. Identify the requirements specific to the sector: product safety, configuration management, counterfeit parts, human factors
3. Apply the control of operational risks, special requirements, critical items and key characteristics
4. Organise the verification of the production process, including first article inspection, and control of changes
5. Assess the gap between your site and the standard and prepare the action plan

Programme

Day 1 — morning

• The aerospace supply chain: principals, tiers, contractual requirements
• How EN 9100:2018 fits with ISO 9001; place of EN 9110 and EN 9120
• Context, interested parties, leadership, staff awareness of their contribution to product safety
• Risks and opportunities of the system

Day 1 — afternoon

• Operational planning: control of operational risks, configuration management
• Product safety and prevention of counterfeit parts
• Special requirements, critical items, key characteristics
• Exercise: review of the contractual requirements of one of your orders

Day 2 — morning

• Purchasing and external providers: requirements passed on, performance monitoring
• Production: verification of the production process, first article inspection, foreign object prevention, tooling
• Control of production changes and of transferred work
• Product release and control of nonconforming outputs

Day 2 — afternoon (workshop)

• Delivery performance and customer satisfaction, internal audit, management review
• Nonconformities and corrective actions: taking human factors into account in cause analysis
• Workshop: gaps in your site against the standard and priorities
• Knowledge test and presentation of the work

Teaching methods

• Guided reading of the added requirements, in parallel with ISO 9001
• Exercises on your manufacturing files, your nonconformity forms and your customers' requirements
• Case study: a part suspected of being counterfeit, from detection to customer notification
• Mid-course quiz and final test

Assessment and documents

Mid-course quiz and knowledge test, post-course evaluation at D+1. Each participant receives a numbered certificate, verifiable online; training report and the list of gaps from the workshop handed to the company.

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

Good to know

For the conduct of internal audits, the course “Internal Auditor — ISO 19011:2018” complements this session. Sites that also supply the automotive industry can take “IATF 16949:2016 — Automotive Quality”.

Practical information

Duration	2 days
Audience	Management, quality managers, methods and industrialisation engineers, purchasing and production managers of aerospace subcontractors
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 EN 9100:2018 replace ISO 9001?

No, it encompasses it: it takes up the ISO 9001 requirements and adds those of aerospace, space and defence. The course concentrates on these additions and recalls the ISO 9001 requirements that help in reading them.

How does it differ from EN 9110 and EN 9120?

EN 9110 is for aviation maintenance organisations, EN 9120 for distributors and stockholders. EN 9100 is aimed at companies that design or manufacture products for aerospace, space and defence.

Who should attend?

Management, quality managers, methods and industrialisation engineers, purchasing and production managers of aerospace subcontractors or of companies that want to become one.

Is the course useful before a first audit?

Yes. The workshop at the end of the session produces the list of your site’s gaps and the action priorities, which serve as a basis for preparing the certification audit.