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STANDARDS & GUIDANCE REPORT · INTERNATIONAL · CERTIFIABLE STANDARD

AS9100D

Quality Management Systems — Requirements for Aviation, Space, and Defense Organizations

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ISSUED BY	SAE International for the International Aerospace Quality Group (IAQG)	PREPARED BY	Conner Davidson
EDITION	Revision D (2016), built on ISO 9001:2015. Published in Europe as EN 9100:2018 and in Asia as JIS Q 9100	STATUS CHECKED	October 24, 2026
INDUSTRIES	Aerospace & Defense, Government & Defense Suppliers	ONLINE	qesisbest.com/standard-as9100.html

REVISION IN PROGRESS The IAQG is preparing to reissue it, with AS9110, AS9120 and AS9145, as the IA9100 series built on ISO 9001:2026. That was planned for 2026 but had not been published by October 24, 2026; AS9100D certificates remain valid until a transition is announced. **Next:** When IA9100 is published, expect a transition of two to three years. Until then, the ISO 9001:2026 transition does not change what an AS9100D audit checks.

What It Covers

Every ISO 9001 requirement, plus the aviation, space, and defense additions: operational risk, configuration management, product safety, counterfeit-part prevention, first article inspection, special-process validation, foreign object prevention, and on-time delivery.

Who It Applies To

Organizations that design, develop or produce aviation, space and defense products, and those that hold certificates listed in the IAQG OASIS database for their customers to check.

Key Requirements

- Operational risk management, configuration management, and product safety planned into operations (8.1.1–8.1.3).
- Prevention of counterfeit parts, from purchasing through detection, quarantine, and reporting (8.1.4).
- Requirements flowed down to external providers, including key characteristics, test specimens, and right of access (8.4.3).
- Production process verification through first article inspection, and validation of special processes (8.5.1.2, 8.5.1.3).
- Foreign object prevention, control of nonconforming outputs including scrap, and on-time delivery performance measured (8.5.4, 8.7, 9.1.2).

Structure at a Glance

PART	TOPIC	WHAT IT ASKS FOR
Clauses 4–6	Context, leadership, planning	ISO 9001 text plus product conformity, safety, and on-time delivery in leadership commitments.

PART	TOPIC	WHAT IT ASKS FOR
Clause 7	Support	Measurement traceability and recall of suspect equipment, competence, awareness of product safety and ethical behavior.
Clause 8.1	Operational planning	Operational risk management, configuration management, product safety, prevention of counterfeit parts.
Clause 8.3	Design and development	Planning by phases, verification and validation testing, design changes controlled.
Clause 8.4	External providers	Approved provider lists, provider performance monitoring, extensive flowdown of requirements.
Clause 8.5	Production and service	Special processes, first article inspection, foreign object prevention, preservation, post-delivery support.
Clauses 8.6–10	Release, nonconformity, evaluation	Release documentation, nonconforming output disposition, delivery performance, internal audit, corrective action.

What an Auditor Asks to See

- Your purchase order flowdown clauses and how they match the customer's.
- A first article inspection report for a recent part.
- Counterfeit-part prevention: approved sources, detection, and quarantine records.
- On-time delivery and quality performance for the last year, with the actions taken.

Requirements Checklist

Work down the list with the evidence in hand; write where each item is evidenced in the right-hand column.

#	REQUIREMENT	EVIDENCE ON FILE
1	Operational risks identified, assessed and mitigated, with acceptance decisions recorded (8.1.1).	
2	Configuration management planned and applied through the product life cycle (8.1.2).	
3	Product safety process covers hazard assessment, risk mitigation, and communication (8.1.3).	
4	Counterfeit-part prevention process in place, including training and reporting (8.1.4).	
5	Monitoring equipment recalled and impact assessed when found out of calibration (7.1.5.2).	
6	Awareness training covers product safety, conformity, and ethical behavior (7.3).	
7	External providers approved, monitored, and risk-ranked; requirements flowed down (8.4).	
8	Special processes validated and requalified as defined (8.5.1.2).	
9	First article inspection performed for new parts and after relevant changes (8.5.1.3).	
10	Foreign object prevention program operating in production areas (8.5.1).	
11	Nonconforming product dispositioned by authorized people, with scrap controlled (8.7).	
12	On-time delivery and product conformity measured and acted on (9.1.2).	
13	Corrective actions flowed down to providers where they were the cause (10.2).	

Implementation Roadmap

1. Baseline	Assess against AS9100D, noting where ISO 9001:2026 already moves your base system.
2. Aerospace additions	Close the gaps in risk, configuration, product safety, and counterfeit prevention first.
3. Supply chain	Rewrite purchase order flowdowns from the customers' terms, and rank providers by risk.
4. Production controls	Make first article inspection, special processes, and foreign object prevention routine and evidenced.
5. Audit and watch	Internal audit, management review, certification; then plan the IA9100 transition when it is published.

How It Fits With Other Requirements

AS9100D contains ISO 9001:2015 in full. AS9110 and AS9120 apply the same model to maintenance and distribution, AS9145 adds APQP and PPAP, AS9102 sets the first article report, and Nadcap accredits the special processes. ITAR governs who may see the technical data the system controls.

Findings We See Most Often

- Flowdown of customer requirements to providers incomplete (8.4.3).
- First article inspection not repeated after a change in process, location, or tooling (8.5.1.3).
- Counterfeit-part prevention not evidenced beyond a procedure (8.1.4).
- Calibration recall not assessed for product impact (7.1.5.2).

Where Systems Fall Short

- Flowdowns copied from a customer's template without reading them.
- Product safety and ethical behavior awareness treated as a poster, not a training record.
- Configuration changes made on the floor before the drawing is revised.

How QES helps. A gap assessment against AS9100D now, structured so it carries straight over to IA9100 when the series is published. See the gap assessment: qesisbest.com/services.html#gap-assessment · +1 (401) 246-3204 · mweeden@qesisbest.com

Sources, checked October 24, 2026. IAQG — International Aerospace Quality Group — iaqg.org; SAE International — Aerospace standards store — www.sae.org/standards.

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