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STANDARDS & GUIDANCE BRIEF · INTERNATIONAL · INDUSTRY STANDARD

AS9145

Aerospace Series — Requirements for Advanced Product Quality Planning and Production Part Approval Process

DOCUMENT	QES-WP-133, Rev B	DATE	November 7, 2026
ISSUED BY	SAE International for the IAQG	PREPARED BY	Conner Davidson
EDITION	Original issue (2016)	STATUS CHECKED	October 24, 2026
INDUSTRIES	Aerospace & Defense	ONLINE	qesisbest.com/standard-as9145.html

REVISION IN PROGRESS In force where customers invoke it. It is among the standards to be reissued in the IA9100 series, not published as of October 24, 2026.

What It Covers

The automotive planning and approval discipline adapted to aerospace: low volumes, long life cycles, and design authority held by the customer.

Who It Applies To

Aerospace suppliers whose customers invoke AS9145 in their purchase order or supplier requirements.

Key Requirements

- Five phases from planning through product and process design to validation and ongoing production.
- Process flow, PFMEA, and control plan as linked deliverables.
- Production part approval completed with the first article inspection to AS9102.

What an Auditor Asks to See

- The APQP deliverables for a new part, and who approved each phase.
- The PFMEA and control plan for a key characteristic.

Where Systems Fall Short

- Deliverables produced at the end to satisfy the customer, not used to plan the work.

How QES helps. APQP and PPAP adapted to aerospace volumes, so the deliverables earn their keep. 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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