



AS13006: PROCESS CONTROL METHODS

This standard has been created by the SAE G-22 Aerospace Engine Supplier Quality (AESQ) Committee to standardize and focus the use of process control. The use of statistical techniques and other proven methods will result in improved quality and manufacturing maturity. This standard helps organizations select appropriate control strategies when developing control plans and demonstrate their effectiveness through statistical analysis.

Aerospace engine manufacturers currently have differing requirements for process control that have the same intent. A single set of process control requirements will improve efficiency. This new standard will improve product quality through optimized process control and capability thus benefiting both the organization applying it, and its customers.

To assure customer satisfaction, the aviation, space, and defense industry organizations have to produce and continually improve safe, reliable products that equal or exceed customer and regulatory authority requirements. The globalization of the industry and the resulting diversity of regional/national requirements and expectations have complicated this objective. End-product organizations face the challenge of assuring the quality of product from a multi-level supply chain. Organizations face the challenge of delivering product to multiple customers having varying quality expectations and requirements.

This standard establishes requirements for Process Control Methods to sustain product conformity. This includes training, selection of control methods, analysis and improvement of their effectiveness, and subsequent monitoring and control. It applies to all controls documented in the Control Plan. This will include but is not limited to Key Characteristics (KCs) and Critical Items (CIs).

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Aerospace Engine Supplier Quality (AESQ) Strategy Group

The Aerospace Engine Supplier Quality (AESQ) Strategy Group, a program of the SAE ITC, was established to develop, specify, maintain, promote and deploy quality standards specific to the Aerospace Engine supply chain. This work is intended to reduce customer specifics through a focused set of standards that integrate industry best practice and aerospace engine unique elements. The objectives of the AESQ shall include, but not be limited to, the following:

- Develop and promote Quality Standards for use within the aero engine supply chain.
- Develop training and guidance material to support implementation of the standards and overall development of the supply chain in key areas.
- Liaison with government organizations and regulatory bodies in order to review requirements relating to the flow down of quality requirements to the supply chain.

“The release of AS13006 is a big step forward in harmonizing requirements in the Aero-Engine supply chain,”

DAN EIGENBRODE

VP Module Centers & Supplier Quality,
Pratt & Whitney and AESQ Executive
Sponsor for AS13006.

“Process Control is the key ingredient for sustained product quality and AS13006 provides the means for all suppliers to implement robust systems to ensure consistent quality regardless of product type.”

AS13006 Relating and Corresponding Standards

- AS13003 - *Measurement Systems Analysis Requirements for the Aero Engine Supply Chain* and AS13004 - *Process Failure Mode and Effects Analysis (PFMEA) and Control Plans* fully align, and support AS9145 - Requirements for Advance Product Quality Planning and Production Part Approval Process, developed by the IAQG/SAE G-14 AAQSC Committee.
- AS13006 also aligns and collaborates with the requirements of AS9103, Quality Management Systems - Variation Management of Key Characteristics.

AESQ Strategy Group members will accept the immediate use of AS13006 within their respective supply chains and strongly encourage organizations to begin using this latest standard before it becomes a contractual requirement. Although designed for the aerospace engine supply chain, AS13003, AS13004, and AS13006 may be applied effectively by other segments of the aviation, space, and defense industries.

JOIN THE COMMITTEE

Your participation would be a welcome addition to a G-22 Standards Committee. The SAE standards consensus process needs active participation from leaders and experts across the industry. If you are a professional in the mobility industry, we welcome your participation.

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