

- TÜV Rheinland Group – A Value-added Registrar

# Aerospace's AS 9100

## Overview of Considerations for Third Party Registration



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# AS 9100

- Based on ISO 9001:2000
- Meets Aerospace manufacturer requirements worldwide
- Emphasis on Traceability, Safety and Airworthiness throughout the supply chain
- Heavy emphasis on customer requirements and the process approach to quality management system implementation



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# AS 9100

- AS 9100 – Manufacturers and Suppliers
  - June 2007
- AS 9003 – Inspection and Test activities
  - June 2008 AS 9100
- AS 9110 - Maintenance
- AS 9120 - Distributors



## What is different from ISO 9001:2000?

- Ensure that quality in the aerospace industry is maintained at the highest level.
- Focus on the identification and management of key characteristics of products.
- Recognize the requirements set by regulatory bodies and ensure records are kept and activities are conducted to help meet these requirements.
- Recognize the complex nature of the final products and the need to ensure complete confidence in every component of the final product.
- Recognize the use of sub contract organizations within a process, and ensure this is effectively managed.



## Sector Specific Requirements Address

- Configuration Management
- Work Environment
- Registration gives authority for OEMs and regulatory authorities to accompany TÜV on assessments
- Planning for long term and life cycle of a product including support and maintenance
- Traceability from specification to disposal
- Design has to consider the user



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### Sector Specific Requirements Address (continued)

- Foreign Object Elimination (FOE)
- Risk evaluation
- Supplier accountability and responsibility
- Calibration is key
- Disposition and identification of non-conforming products & First Article inspection
- Supplier involvement with CARs



# Exclusions

- Only permitted in clause 7 Product Realization (ex. where the organization is not responsible for product design and development)

## Registration

- IAQG – International Aerospace Quality Group
- SAE – Society of Automotive Engineers
- ANAB – ANSI-ASQ National Accreditation Board
- ICOP – Industry Controlled Other Party
- OASIS – Online Aerospace Supplier Information System



## Registration Process

- Pre-assessment (optional)
- Documentation Review (Readiness Assessment)
- Initial registration – Full System  
(ISO and AS requirements)
- 6 month or annual surveillance audits
- Re-audit every 3 years



# Nonconformities

- Certificates of registration will not be issued until nonconformities are satisfactorily addressed  
(root cause taken and corrective action verified)

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## IAQG Members

- Boeing, Lockheed Martin, Northrop Grumman, Rolls Royce Allison, General Electric Aircraft Engines and NASA

## AS 9101 Checklist

Effectiveness and Continual Improvement!!!



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### Benefits of Registration

- Helps to meet the regulatory requirements set by bodies such as the FAA.
- Demonstration of operation to globally recognized aerospace quality standards
- Improved product, process quality and traceability
- Additional confidence for global sourcing
- Common quality system approach in the supply chain for supplier/subcontractor development and consistency
- Potential reduction in variation of quality and increase in efficiency
- Reduction in 2<sup>nd</sup> party system audits



## Your Auditor(s)

- You will be provided an auditor(s) specific to your industry and who carries an EAC code for experience which matches your company EAC codes
- Lead Auditor must be certified by RABQSA International or IRCA
- Lead Auditor must be qualified as an AEA (Aerospace Expert Auditor)

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## Necessary Information for Proposal

- Company Scope of Operation (including EAC Code)
- Number of Employees
- Number of Facilities, locations, and shifts
- Estimated date of registration

