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# Quality Management System Certification in the Aerospace Industry (AS9100)

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# From R&D to Manufacturing on Major Projects

- Major Projects:
  - Space Launch Systems (SLS)
  - ORION
- New Certification Requirements
- Requirements to provide human rated hardware.
  - No longer AS 9100 Level C
  - AS 9100 Level D is now required

# AS9100 C and D Overview

- AS9100 Revision C was released in January, 2009.
- The AS9100C changes are driven by repeated delivery of non-conforming product and repeated late delivery by organizations that held AS9100A/B certifications.
- This AS9100 revision is to elevate the requirements for Risk Management and to make Risk Management an integrated theme throughout the standard.
- AS9100 Revision D was released in September 20, 2016.



# Changes between AS9100B and AS9100C

- Greater Emphasis on Risk Management
- Introduces “Special Requirements”
- Introduces “Critical Items”
- Measure: Requirements conformance
- Measure: Delivery performance
- Adopt Proven Product Development Processes
- Eliminate “recurring corrective actions”

# Changes between AS9100C and AS9100D

- Product safety, counterfeit parts, and human factors are the big differences between AS9100 Rev. D and Rev. C.
- Risk clause was merged with the new ISO 9001 risk requirements along with an increased emphasis on risks in operational processes.
- Awareness clause was added with reinforced requirements for awareness of individual contribution to product and service quality and safety along with ethical behavior
- Human Factors are included as a consideration in nonconformity management and corrective action
- Configuration Management was clarified and improved to address stakeholder needs.

It is time to move to the  
next Level...  
AS 9100 Level D

