01 10 Elements
The standard has been completely renumbered to a standardized 10-element based system. You DO NOT have to renumber your Quality Management System, but if it doesn’t put too much of a hardship on your company’s resources, it is recommended to renumber your system in order to help your personnel and external auditors better relate to the new standard.

02 Context of the Organization
The new standard requires you to be able to demonstrate that management has a deep understanding of their company’s internal and external issues, for example: strengths, weaknesses, opportunities and threats. Companies are expected to monitor these on an ongoing basis.

03 Interests of External Parties
Companies need to document a general description of who their external interested parties are. Examples would be Customers, Regulatory Authorities, The Parent Corporation, Stock Holders, etc.

04 Objective Programs
Now, instead of only having to have an action plan defined when you are not meeting an objective in order to correct it, you must have a plan for each objective which describes: what will be done; what resources will be required; who will be responsible; when it will be completed; how the results will be evaluated. We commonly refer to this as having a documented objective program.
05 Risk-Based Thinking
In the previous standard, risk was only required to be assessed at contract review or quoting and then the results communicated throughout product realization, as applicable. Now, companies must also assess Process Risk, Corporate Risk and Opportunities.

06 Product Safety
Companies must determine what controls are necessary to assure the safety of the products and services they offer and they must train their personnel on these requirements.

07 Ethics Training
Personnel must be made aware of the importance of ethical behavior. It is a good idea to have an Ethics Policy for the company to train personnel.

08 Management Review
Management Review has several new input requirements including:
- The performance of external providers; on-time delivery performance
- The adequacy of resources
- The effectiveness of actions taken to address risks and opportunities.
- One new output was also added: Risks that have been identified.

09 Organizational Knowledge
The new wording lends itself towards having a system that shows a company has determined what knowledge and training is necessary for its personnel and also pushes companies further towards having job descriptions and methods to institutionalize critical knowledge.

10 Counterfeit Parts Prevention
Companies must have a procedure for Counterfeit Parts Prevention which must include sampling and analysis of raw materials and parts. We also recommend that companies join the GIDEP (Government Industry Data Exchange Program) in order to meet the intent of the Note regarding the elements of Counterfeit Parts Prevention.
11 Supplier Monitoring

It is now required to measure both the On Time Delivery Rate and Quality Rate for suppliers.

12 Purchasing

Flow-down requirements have been expanded, including requirements for suppliers to make their employees aware of Product Safety and the importance of Ethical Behavior and their contribution to product or service conformity.

13 Communication

Companies must determine requirements for internal and external communication including:

- On what it will communicate
- When to communicate
- With whom to communicate
- How to communicate
- Who communicates

14 Change Management

There is an enhanced emphasis throughout the standard on controlling changes to the QMS; its processes, planning, production, contracts, etc.

15 Human Factors

There is a new requirement found in the Work Environment section regarding Human Factors and also added as a requirement in the Production Control and Corrective Action root cause analysis sections. The AAQG (the American Aerospace Quality Group) has published a lengthy presentation on “Human Factors” which is being included during the training for Aerospace Auditors.

- Ethics Training – Personnel must be made aware of the importance of ethical behavior. It is a good idea to have an Ethics Policy to reference for employee training.
The Aerospace Standard
AS9100 Rev D. Has Been Released

Noteworthy Dates:

October 2016 ..................... The new AS9100 Rev. D Aerospace Standard is available for purchase
November 2016 ................................................................. AS9101 and 9120 was published
December 2016 ................................................................. AS9110 was published
June 15, 2017 ......................... All AS audits must be conducted to the 2016 standard’s audit process
September 15, 2018 .................. All AS9100 Rev C certificates become invalid

7 Important Focus Items of the Revised Standard:

- Product Safety
- Human Factors
- Risk
- Preventive Action
- Counterfeit Parts
- Configuration Management
- Product Realization & Planning

Enhanced Requirements Beyond ISO 9001:

- Intense focus on safety, risk mitigation and preventing the use of suspected counterfeit parts
- Greater emphasis on customer satisfaction
- Greater emphasis on system quality and product conformity
- Greater emphasis on on-time delivery
- Greater emphasis on customer-specific requirements

Other Points about the New Revision D Standard:

- AS9100:2016 Rev. D is now aligned with the same high-level structure as ISO-9000:2015 and other standards
- Complete your transition in 2017 to be ready for Rev D certification before September 2018
- There will be great demand for AS9100 certified auditors, so plan ahead to avoid problems in 2017

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