



Clause Map – AS9110C to AS9110B

AS9110:2016 Clauses	AS9110:2013 Clauses
Rationale	Rationale
Foreword	Foreword
Table of Contents	Table of Contents
<i>Intended Application</i>	New.
Introduction	Introduction
0.1 General	0.1 General
0.2 Quality Management Principles	0.1 General
0.3 Process Approach (title only)	0.2 Process Approach
0.3.1 General	0.2 Process Approach
0.3.2 Plan-Do-Check-Act cycle	0.2 Process Approach (See NOTE)
0.3.3 Risk-Based Thinking	New.
0.4 Relationship with Other Management System Standards	New. Did not include 0.3 or 0.4 from ISO 9001:2008.
1. Scope	1. Scope
2. Normative References	2. Normative References
3. Terms and Definitions	3. Terms and Definitions
4. Context of the organization (title only)	4. Quality Management System (title only)
4.1 Understanding the Organization and its Context	New. See old 0.1 General on organizational environment and risks.
4.2 Understanding the Needs and Expectations of Interested Parties	New.
4.3 Determining the Scope of the Quality Management System	1.2 Application; 4.2.2 Quality Manual
4.4 Quality Management System and its Processes (title only)	4. Quality Management System (title only)
4.4.1 (untitled)	4.1 General Requirements
4.4.2 (untitled)	4.2.1 General; 4.2.4 Control of Records
5. Leadership (title only)	5. Management responsibility (title only)
5.1 Leadership and Commitment (title only)	5. Management Responsibility (title only)
5.1.1 General	5.1 Management Commitment
5.1.2 Customer Focus	5.2 Customer Focus
5.2 Policy (title only)	5.3 Quality Policy
5.2.1 Establishing the Quality Policy	5.3 Quality Policy
5.2.2 Communicating the Quality Policy	5.3 Quality Policy
5.2.3 Establishing and Communicating the Safety Policy	5.7 Safety Policy; 4.2.1.e General; 5.1.f Management Commitment
5.3 Organizational Roles, Responsibilities and Authorities	5.5.1 Responsibility & Authority; 5.5.2 Management Representative
5.3.1 Accountable Manager	5.5.1.1 Accountable Manager
5.3.2 Quality Manager	New.
5.3.3 Other Appointed Manager(s)	5.5.1.2 Maintenance Manager(s)
6. Planning (title only)	5.4 Planning (title only)
6.1 Actions to Address Risks and Opportunities (title only)	5.4.2 Quality Management System Planning; 8.5.3 Preventive Action
6.1.1 (untitled)	5.4.2.a Quality Management System Planning; 8.5.3 Preventive Action
6.1.2 (untitled)	8.5.3 Preventive Action
6.2 Quality Objectives and Planning to Achieve Them (title only)	5.4.1 Quality Objectives
6.2.1 (untitled)	5.4.1 Quality Objectives
6.2.2 (untitled)	5.4.1 Quality Objectives
6.3 Planning of Changes	5.4.2.b Quality Management System Planning
7. Support (title only)	New. Merged from old 6, 7.6, and 4.2.
7.1 Resources (title only)	6. Resource Management (title only)
7.1.1 General	6.1 Provision of Resources
7.1.2 People	6.1 Provision of Resources; 6.2.1 General
7.1.3 Infrastructure	6.3 Infrastructure
7.1.4 Environment for the Operation of Processes	6.4 Work Environment

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7.1.5 Monitoring and Measuring Resources (title only)	7.6 Control of Monitoring and Measurement Equipment
7.1.5.1 General	7.6 Control of Monitoring and Measurement Equipment
7.1.5.2 Measurement Traceability	7.6 Control of Monitoring and Measurement Equipment
7.1.6 Organizational Knowledge	New.
7.2 Competence	6.2 Human Resources
7.3 Awareness	6.2.2.d Competence, Training, and Awareness; 4.2.1 General
7.4 Communication	5.5.3 Internal Communication; 7.2.3 Customer Communication
7.5 Documented Information (title only)	4.2 Documentation Requirements (title only)
7.5.1 General	4.2.1 General
7.5.2 Creating and Updating	4.2.3 Control of Documents; 4.2.4 Control of Records
7.5.3 Control of Documented Information (title only)	4.2 Documentation Requirements (title only)
7.5.3.1 (untitled)	4.2.3 Control of Documents; 4.2.4 Control of Records
7.5.3.2 (untitled)	4.2.3 Control of Documents; 4.2.4 Control of Records
8. Operation (title only)	7. Product Realization
8.1 Operational Planning and Control	7.1 Planning of Product Realization
<i>8.1.1 Operational Risk Management</i>	<i>7.1.2 Risk Management</i>
<i>8.1.2 Configuration Management</i>	<i>7.1.3 Configuration Management</i>
<i>8.1.3 Product Safety</i>	New.
<i>8.1.4 Prevention of Counterfeit Parts</i>	New.
<i>8.1.5 Prevention of Suspected Unapproved Parts</i>	New.
<i>8.1.6 Installation of Approved Parts</i>	New.
8.2 Requirements for products and services (title only)	7.2 Customer-Related Processes
8.2.1 Customer communication	7.2.3 Customer Communication
8.2.2 Determining the requirements for products and services	7.2.1 Determination of Requirements Related to the Product
8.2.3 Review of requirements for products and services (title only)	7.2.2 Review of Requirements Related to the Product
8.2.3.1 (untitled)	7.2.2 Review of Requirements Related to the Product
8.2.3.2 (untitled)	7.2.2 Review of Requirements Related to the Product
8.2.4 Changes to requirements for products and services	7.2.2 Review of Requirements Related to the Product
8.3 Design and development of products and services (title only)	7.3 Design and Development (title only)
8.3.1 General	New.
8.3.2 Design and Development Planning	7.3.1 Design and Development Planning
8.3.3 Design and Development Inputs	7.3.2 Design and Development Inputs
8.3.4 Design and Development Controls	7.3.4 Design and Development Review; 7.3.5 Design and Development Verification; 7.3.6 Design and Development Validation
8.3.5 Design and Development Outputs	7.3.3 Design and Development Outputs
8.3.6 Design and Development Changes	7.3.7 Control of Design and Development Changes
8.4 Control of Externally Provided Processes, Products, and Services (title only)	7.4 Purchasing (title only)
8.4.1 General	7.4.1 Purchasing Process
<i>8.4.1.1 (untitled)</i>	7.4.1 Purchasing Process; 7.4.2.h Purchasing Information
8.4.2 Type and Extent of Control	7.4.1 Purchasing Process; 7.4.3 Verification of Purchased Product
8.4.3 Information for External Providers	7.4.1.d Purchasing Process (see new 8.4.3.k) 7.4.2 Purchasing Information; 7.4.3 Verification of Purchased Product (see new 8.4.3.f)
8.5 Production and Service Provision (title only)	7.5 Production and Service Provision (title only)
8.5.1 Control of Production and Service Provision	7.5.1 Control of Production and Service Provision; 7.5.2 Validation of Processes for Production and Service Provision 7.4.3 Verification of Purchased Product
<i>8.5.1.1 Control of Equipment, Tools, and Software Programs</i>	<i>7.5.1.3 Control of Maintenance Equipment, Tools, and SW Programs</i>
<i>8.5.1.2 Validation and Control of Special Processes</i>	7.5.2 Validation of Processes for Production and Service Provision
<i>8.5.1.3 Production Process Verification (Not Applicable)</i>	N/A
<i>8.5.1.4 Evaluation of New Capability</i>	<i>7.5.1.1 Maintenance Process Verification</i>
8.5.2 Identification and Traceability	7.5.3 Identification and Traceability
8.5.3 Property Belonging to Customers or External Providers	7.5.4 Customer Property
8.5.4 Preservation	7.5.5 Preservation of Product

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8.5.5 Post-Delivery Activities	7.2.1.a Determination of Requirements Related to the Product; 7.5.1.f Control of Production and Service Provision <i>7.5.1.4 Post-Delivery Support</i>
8.5.6 Control of Changes	<i>7.5.1.2 Control of Maintenance Process Changes</i>
8.6 Release of Products and Services	7.4.3 Verification of Purchased Product; 8.2.4 Monitoring and Measurement of Product
8.7 Control of Nonconforming Outputs (title only)	8.3 Control of Nonconforming Product
8.7.1 (untitled)	8.3 Control of Nonconforming Product
8.7.2 (untitled)	8.3 Control of Nonconforming Product
9. Performance evaluation (title only)	New.
9.1 Monitoring, Measurement, Analysis, and Evaluation (title only)	8. Measurement, Analysis, and Improvement (title only)
9.1.1 General	8.1 General; 8.2.3 Monitoring and Measurement of Processes
9.1.2 Customer Satisfaction	8.2.1 Customer Satisfaction
9.1.3 Analysis and Evaluation	8.4 Analysis of Data
9.2 Internal Audit (title only)	8.2.2 Internal Audit
9.2.1 (untitled)	8.2.2 Internal Audit
9.2.2 (untitled)	8.2.2 Internal Audit
9.3 Management Review (title only)	5.6 Management Review
9.3.1 General	5.6.1 General
9.3.2 Management Review Inputs	5.6.2 Review Input
9.3.3 Management Review Outputs	5.6.3 Review Output
10. Improvement (title only)	8.5 Improvement (title only)
10.1 General	8.5.1 Continual Improvement
10.2 Nonconformity and Corrective Action (title only)	8.3 Control of Nonconforming Product; 8.5.2 Corrective Action
10.2.1 (untitled)	8.3 Control of Nonconforming Product; 8.5.2 Corrective Action
10.2.2 (untitled)	8.3 Control of Nonconforming Product; 8.5.2 Corrective Action
10.3 Continual Improvement	8.5.1 Continual Improvement

Annex A – Clarification of New structure, Terminology, and Concepts A.1 Structure and Terminology A.2 Products and Services A.3 Understanding the Needs and Expectations of Interested Parties A.4 Risk-Based Thinking A.5 Applicability A.6 Documented Information A.7 Organizational Knowledge A.8 Control of Externally Provided Processes, Products, and Services	New.
Annex B – Other International Standards on Quality Management and Quality Management Systems Developed by ISO/TC 176	New.
<i>Annex C – Other Standards on Quality Management and Quality Management Systems Developed by IAQG</i>	New.
Annex D - Bibliography	Bibliography
<i>Annex E – Aviation, Space, and Defense Bibliography</i>	Bibliography