Requirements Correlation Matrix

International Aerospace Quality Group (IAQG) AS/EN/SJAC 9110:2016 (Rev C)

vs

Federal Aviation Administration (FAA) Code of Federal Regulations (CFR) 14 - Part 145

Introduction

This document has been created by the IAQG 9110 writing team to provide detailed correlation between the requirements of AS/EN/SJAC 9110:2016 (Rev C), and the Federal Aviation Administration (FAA) Code of Federal Regulations (CFR) 14 Part 145.

The information contained within this document can be used to provide correlation when comparing requirements between the respective standard/regulation, it is not intended to provide exact equivalency or assumed acceptable means of compliance between the stated requirements.

This information may be useful for example when: organizations are determining their management system requirements, audit program managers are expressing audit scope and criteria, auditors are developing their audit plan/preparing questionnaires etc.

This document comprises of two sections:
- Section 1 - Correlation of the FAA Part 145 paragraphs to each of the 9110:2016 (Rev C) clauses
- Section 2 - Correlation of the 9110:2016 (Rev C) clauses to each of the FAA Part 145 paragraphs

Section 1 - Correlation of the FAA Part 145 paragraphs to each of the 9110:2016 (Rev C) clauses

9110:2016 (Rev C)		FAA Part 145:2014	
Clause #	**Clause Title**	**Paragraph #**	**Paragraph Title**

3.	**TERMS AND DEFINITIONS**		
3.1	Airworthy	N/A	
3.2	Article	145.3	Definition of terms
3.3	Certified Person	N/A	
3.4	Certifying Staff	N/A	
3.5	Competent Authority	N/A	
3.6	Continuing Airworthiness Management	N/A	

3.7	Counterfeit Part	N/A	
3.8	Dismantling	N/A	
3.9	Life Limited Part	N/A	
3.10	Maintenance	N/A	
3.11	Maintenance Data	N/A	
3.12	Product Safety	N/A	
3.13	Qualified Person	N/A	
3.14	Safety Policy	N/A	
3.15	Suspected Unapproved Part	N/A	
3.16	Technical Data	N/A	
3.17	Unapproved Part	N/A	
4.	**CONTEXT OF THE ORGANIZATION**		
4.1	Understanding the Organization and its Context	N/A	
4.2	Understanding the Needs and Expectations of Interested Parties	145.5	Certificate and operations specifications requirements
		145.12	Repair station records: Falsification, reproduction, alteration, or omission
		145.51	Application for certificate
		145.53	Issue of certificate
		145.55	Duration and renewal of certificate
		145.57	Amendment to or transfer of certificate
		145.59	Ratings
		145.61	Limited ratings
		145.101	General
		145.103	Housing and facilities requirements
		145.105	Change of location, housing, or facilities
		145.107	Satellite repair stations
		145.109	Equipment, materials, and data requirements

		145.153	Supervisory personnel requirements
		145.155	Inspection personnel requirements
		145.157	Personnel authorized to approve an article for return to service
		145.159	Recommendation of a person for certification as a repairman
		145.160	Employment of former FAA employees
		145.161	Records of management, supervisory, and inspection personnel
		145.163	Training requirements
		145.165	Hazardous materials training
		145.201	Privileges and limitations of certificate
		145.203	Work performed at another location
		145.205	Maintenance, preventive maintenance, and alterations performed for certificate holders under parts 121, 125, and 135, and for foreign air carriers or foreign persons operating a U.S.-registered aircraft in common carriage under part 129
		145.206	Notification of hazardous materials authorizations
		145.207	Repair station manual
		145.211	Quality control system
		145.215	Capability list
		145.217	Contract maintenance
		145.219	Recordkeeping
		145.221	Service difficulty reports
		145.223	FAA inspections
4.3	Determining the Scope of the Quality Management System	145.5	Certificate and operations specifications requirements
		145.51	Application for certificate
		145.107	Satellite repair stations
		145.201	Privileges and limitations of certificate

		145.205	Maintenance, preventive maintenance, and alterations performed for certificate holders under parts 121, 125, and 135, and for foreign air carriers or foreign persons operating a U.S.-registered aircraft in common carriage under part 129
		145.209	Repair station manual contents
		145.215	Capability list
4.4	**Quality Management System and its Processes**		
4.4.1	Quality Management and its Processes	145.5	Certificate and operations specifications requirements
		145.51	Application for certificate
		145.207	Repair station manual
		145.209	Repair station manual contents
		145.211	Quality control system
4.4.2	Quality Management and its Processes	145.5	Certificate and operations specifications requirements
		145.51	Application for certificate
		145.107	Satellite repair stations
		145.109	Equipment, materials, and data requirements
		145.161	Records of management, supervisory, and inspection personnel
		145.163	Training requirements
		145.203	Work performed at another location
		145.207	Repair station manual
		145.209	Repair station manual contents
		145.211	Quality control system
		145.215	Capability list
		145.219	Recordkeeping
5.	**LEADERSHIP**		
5.1	Leadership and Commitment		
5.1.1	General	145.103	Housing and facilities requirements

		145.153	Supervisory personnel requirements
		145.211	Quality control system
5.1.2	Customer Focus	N/A	
5.2	Policy		
5.2.1	Establishing the Quality Policy	N/A	
5.2.2	Communicating the Quality Policy	N/A	
5.2.3	Understanding and Communicating the Safety Policy	N/A	
5.3	Organizational Roles, Responsibilities, and Authorities	145.51	Application for certificate
		145.151	Personnel requirements
		145.153	Supervisory personnel requirements
		145.155	Inspection personnel requirements
		145.161	Records of management, supervisory, and inspection personnel
		145.209	Repair station manual contents
5.3.1	Accountable Manager	145.3	Definition of terms
		145.151	Personnel requirements
		145.209	Repair station manual contents
5.3.2	Quality Manager	145.209	Repair station manual contents
5.3.3	Other Appointed Managers	145.209	Repair station manual contents
6.	**PLANNING**		
6.1	Actions to Address Risks and Opportunities		
6.1.1	Actions to Address Risks and Opportunities	N/A	
6.1.2	Actions to Address Risks and Opportunities	N/A	
6.2	Quality Objectives and Planning to Achieve Them		
6.2.1	Quality Objectives and Planning to Achieve Them	N/A	
6.2.2	Quality Objectives and Planning to Achieve Them	N/A	
6.3	Planning of Changes	145.105	Change of location, housing, or facilities

		145.163	Training requirements
		145.207	Repair station manual
		145.209	Repair station manual contents
		145.211	Quality control system
7.	**SUPPORT**		
7.1	Resources		
7.1.1	General	145.101	General
		145.103	Housing and facilities requirements
		145.107	Satellite repair stations
		145.205	Maintenance, preventive maintenance, and alterations performed for certificate holders under parts 121, 125, and 135, and for foreign air carriers or foreign persons operating a U.S.-registered aircraft in common carriage under part 129
		145.209	Repair station manual contents
7.1.2	People	145.151	Personnel requirements
		145.153	Supervisory personnel requirements
		145.155	Inspection personnel requirements
		145.157	Personnel authorized to approve an article for return to service
		145.165	Hazardous materials training
		145.209	Repair station manual contents
		145.213	Inspection of maintenance, preventive maintenance, or alterations
7.1.3	Infrastructure	145.51	Application for certificate
		145.103	Housing and facilities requirements
		145.105	Change of location, housing, or facilities
		145.209	Repair station manual contents
7.1.4	Environment for the Operation of Processes	145.103	Housing and facilities requirements

7.1.5	Monitoring and Measuring Resources		
7.1.5.1	General	145.109	Equipment, materials, and data requirements
		145.211	Quality control system
7.1.5.2	Measurement Traceability	145.109	Equipment, materials, and data requirements
		145.211	Quality control system
7.1.6	Organizational Knowledge	N/A	
7.2	Competence	145.53	Issue of certificate
		145.151	Personnel requirements
		145.153	Supervisory personnel requirements
		145.155	Inspection personnel requirements
		145.157	Personnel authorized to approve an article for return to service
		145.161	Records of management, supervisory, and inspection personnel
		145.163	Training requirements
		145.165	Hazardous materials training
		145.209	Repair station manual contents
		145.211	Quality control system
		145.213	Inspection of maintenance, preventive maintenance, or alterations
7.3	Awareness	145.12	Repair station records: Falsification, reproduction, alteration, or omission
7.4	Communication	145.51	Application for certificate
		145.53	Issue of certificate
		145.55	Duration and renewal of certificate
		145.57	Amendment to or transfer of certificate
		145.163	Training requirements
		145.206	Notification of hazardous materials authorizations

		145.207	Repair station manual
		145.209	Repair station manual contents
		145.211	Quality control system
		145.215	Capability list
		145.217	Contract maintenance
		145.219	Recordkeeping
		145.221	Service difficulty reports
7.5	Documented Information		
7.5.1	General	145.109	Equipment, materials, and data requirements
		145.161	Records of management, supervisory, and inspection personnel
		145.163	Training requirements
7.5.2	Creating and Updating	145.51	Application for certificate
		145.53	Issue of certificate
		145.55	Duration and renewal of certificate
		145.57	Amendment to or transfer of certificate
		145.161	Records of management, supervisory, and inspection personnel
		145.163	Training requirements
		145.207	Repair station manual
		145.209	Repair station manual contents
		145.211	Quality control system
		145.215	Capability list
		145.221	Service difficulty reports
7.5.3	Control of Documented Information		
7.5.3.1	Control of Documented Information	145.12	Repair station records: Falsification, reproduction, alteration, or omission
		145.109	Equipment, materials, and data requirements

		145.207	Repair station manual
7.5.3.2	Control of Documented Information	145.109	Equipment, materials, and data requirements
		145.161	Records of management, supervisory, and inspection personnel
		145.163	Training requirements
		145.207	Repair station manual
		145.209	Repair station manual contents
		145.211	Quality control system
		145.219	Recordkeeping
8.	**OPERATION**		
8.1	Operation Planning and Control	145.103	Housing and facilities requirements
		145.109	Equipment, materials, and data requirements
		145.203	Work performed at another location
		145.211	Quality control system
8.1.1	Operational Risk Management	N/A	
8.1.2	Configuration Management	N/A	
8.1.3	Product Safety	145.221	Service difficulty reports
8.1.4	Prevention of Counterfeit Parts	N/A	
8.1.5	Prevention of Suspected Unapproved Parts	N/A	
8.1.6	Installation of Approved Parts	145.211	Quality control system
8.2	Requirements for Products and Services		
8.2.1	Customer Communication	N/A	
8.2.2	Determining the Requirements for Products and Services	145.205	Maintenance, preventive maintenance, and alterations performed for certificate holders under parts 121, 125, and 135, and for foreign air carriers or foreign persons operating a U.S.-registered aircraft in common carriage under part 129
		145.209	Repair station manual contents

8.2.3	Review of the Requirements for Products and Services		
8.2.3.1	Review of the Requirements for Products and Services	N/A	
8.2.3.2	Review of the Requirements for Products and Services	N/A	
8.2.4	Changes to Requirements for Products and Services	N/A	
8.3	Design and Development of Products and Services		
8.3.1	General	N/A	
8.3.2	Design and Development Planning	N/A	
8.3.3	Design and Development Inputs	N/A	
8.3.4	Design and Development Controls	N/A	
8.3.5	Design and Development Outputs	N/A	
8.3.6	Design and Development Changes	N/A	
8.4	Control of Externally Provided Processes, Products and Services		
8.4.1	General	145.51	Application for certificate
		145.209	Repair station manual contents
		145.217	Contract maintenance
8.4.1.1	General	145.51	Application for certificate
		145.209	Repair station manual contents
		145.217	Contract maintenance
8.4.2	Type and Extent of Control	145.201	Privileges and limitations of certificate
		145.211	Quality control system
		145.217	Contract maintenance
8.4.3	Information for External Providers	145.201	Privileges and limitations of certificate
		145.217	Contract maintenance
8.5	Production and Service Provision		
8.5.1	Control of Production and Service Provision	145.103	Housing and facilities requirements
		145.109	Equipment, materials, and data requirements
		145.203	Work performed at another location

		145.209	Repair station manual contents
		145.211	Quality control system
		145.213	Inspection of maintenance, preventive maintenance, or alterations
8.5.1.1	Control of Equipment, Tools, and Software Programs	145.109	Equipment, materials, and data requirements
8.5.1.2	Validation and Control of Special Processes	N/A	
8.5.1.3	Production Process Verification	N/A	
8.5.1.4	Evaluation of a New Capability	145.209	Repair station manual contents
		145.215	Capability list
8.5.2	Identification and Traceability	N/A	
8.5.3	Property Belonging to Customers or External Providers	145.211	Quality control system
8.5.4	Preservation	145.103	Housing and facilities requirements
		145.206	Notification of hazardous materials authorizations
8.5.5	Post-Delivery Activities	145.221	Service difficulty reports
8.5.6	Control of Changes	145.105	Change of location, housing, or facilities
8.6	Release of Products and Services	145.201	Privileges and limitations of certificate
		145.211	Quality control system
		145.213	Inspection of maintenance, preventive maintenance, or alterations
		145.219	Recordkeeping
8.7	Control of Nonconforming Outputs		
8.7.1	Control of Nonconforming Outputs	145.221	Service difficulty reports
8.7.2	Control of Nonconforming Outputs	145.221	Service difficulty reports
9.	PERFORMANCE EVALUATION		
9.1	Monitoring, Measurement, Analysis and Evaluation		
9.1.1	General	N/A	
9.1.2	Customer Satisfaction	N/A	

9.1.3	Analysis and Evaluation	N/A	
9.2	Internal Audit		
9.2.1	Internal Audit	N/A	
9.2.2	Internal Audit	N/A	
9.3	Management Review		
9.3.1	General	N/A	
9.3.2	Management Review Inputs	N/A	
9.3.3	Management Review Outputs	N/A	
10.	**IMPROVEMENT**		
10.1	General	145.211	Quality control system
		145.221	Service difficulty reports
10.2	Nonconformity and Corrective Action		
10.2.1	Nonconformity and Corrective Action	145.211	Quality control system
		145.221	Service difficulty reports
10.2.2	Nonconformity and Corrective Action	145.211	Quality control system
		145.221	Service difficulty reports
10.3	Continual Improvement	N/A	

Section 2 - Correlation of the 9110:2016 (Rev C) clauses to each of the FAA Part 145 paragraphs

FAA Part 145:2014		9110:2016 (Rev C)	
Paragraph #	**Paragraph Title**	**Clause #**	**Clause Title**

Subpart A - General			
145.1	Applicability	N/A	
145.3	Definition of terms	3.2	Article
		5.3.1	Accountable Manager
145.5	Certificate and operations specifications requirements	4.2	Understanding the Needs and Expectations of Interested Parties
		4.3	Determining the Scope of the Quality Management System
		4.4.1	Quality Management and its Processes
		4.4.2	Quality Management and its Processes
145.12	Repair station records: Falsification, reproduction, alteration, or omission	4.2	Understanding the Needs and Expectations of Interested Parties
		7.3	Awareness
		7.5.3.1	Control of Documented Information
Subpart B - Certification			
145.51	Application for certificate	4.2	Understanding the Needs and Expectations of Interested Parties
		4.3	Determining the Scope of the Quality Management System
		4.4.1	Quality Management and its Processes
		4.4.2	Quality Management and its Processes
		5.3	Organizational Roles, Responsibilities, and Authorities
		7.1.3	Infrastructure
		7.4	Communication

		7.5.2	Creating and Updating
		8.4.1	General
		8.4.1.1	General
145.53	Issue of certificate	4.2	Understanding the Needs and Expectations of Interested Parties
		7.2	Competence
		7.4	Communication
		7.5.2	Creating and Updating
145.55	Duration and renewal of certificate	4.2	Understanding the Needs and Expectations of Interested Parties
		7.4	Communication
		7.5.2	Creating and Updating
145.57	Amendment to or transfer of certificate	4.2	Understanding the Needs and Expectations of Interested Parties
		7.4	Communication
		7.5.2	Creating and Updating
145.59	Ratings	4.2	Understanding the Needs and Expectations of Interested Parties
145.61	Limited ratings	4.2	Understanding the Needs and Expectations of Interested Parties
Subpart C – Housing, Facilities, Equipment, Materials and Data			
145.101	General	4.2	Understanding the Needs and Expectations of Interested Parties
		7.1.1	General
145.103	Housing and facilities requirements	4.2	Understanding the Needs and Expectations of Interested Parties
		5.1.1	General
		7.1.1	General

		7.1.3	Infrastructure
		7.1.4	Environment for the Operation of Processes
		8.1	Operation Planning and Control
		8.5.1	Control of Production and Service Provision
		8.5.4	Preservation
145.105	Change of location, housing, or facilities	4.2	Understanding the Needs and Expectations of Interested Parties
		6.3	Planning of Changes
		7.1.3	Infrastructure
		8.5.6	Control of Changes
145.107	Satellite repair stations	4.2	Understanding the Needs and Expectations of Interested Parties
		4.3	Determining the Scope of the Quality Management System
		4.4.2	Quality Management and its Processes
		7.1.1	General
145.109	Equipment, materials, and data requirements	4.2	Understanding the Needs and Expectations of Interested Parties
		4.4.2	Quality Management and its Processes
		7.1.5.1	General
		7.1.5.2	Measurement Traceability
		7.5.1	General
		7.5.3.1	Control of Documented Information
		7.5.3.2	Control of Documented Information
		8.1	Operation Planning and Control
		8.5.1	Control of Production and Service Provision
		8.5.1.1	Control of Equipment, Tools, and Software Programs

Subpart D – Personnel				
145.151	Personnel requirements	5.3	Organizational Roles, Responsibilities, and Authorities	
		5.3.1	Accountable Manager	
		7.1.2	People	
		7.2	Competence	
145.153	Supervisory personnel requirements	4.2	Understanding the Needs and Expectations of Interested Parties	
		5.1.1	General	
		5.3	Organizational Roles, Responsibilities, and Authorities	
		7.1.2	People	
		7.2	Competence	
145.155	Inspection personnel requirements	4.2	Understanding the Needs and Expectations of Interested Parties	
		5.3	Organizational Roles, Responsibilities, and Authorities	
		7.1.2	People	
		7.2	Competence	
145.157	Personnel authorized to approve an article for return to service	4.2	Understanding the Needs and Expectations of Interested Parties	
		7.1.2	People	
		7.2	Competence	
145.159	Recommendation of a person for certification as a repairman	4.2	Understanding the Needs and Expectations of Interested Parties	
145.160	Employment of former FAA employees	4.2	Understanding the Needs and Expectations of Interested Parties	
145.161	Records of management, supervisory, and inspection personnel	4.2	Understanding the Needs and Expectations of Interested Parties	
		4.4.2	Quality Management and its Processes	
		5.3	Organizational Roles, Responsibilities, and Authorities	

		7.2	Competence
		7.5.1	General
		7.5.2	Creating and Updating
		7.5.3.2	Control of Documented Information
145.163	Training requirements	4.2	Understanding the Needs and Expectations of Interested Parties
		4.4.2	Quality Management and its Processes
		6.3	Planning of Changes
		7.2	Competence
		7.4	Communication
		7.5.1	General
		7.5.2	Creating and Updating
		7.5.3.2	Control of Documented Information
145.165	Hazardous materials training	4.2	Understanding the Needs and Expectations of Interested Parties
		7.1.2	People
		7.2	Competence
Subpart E – Operating Rules			
145.201	Privileges and limitations of certificate	4.2	Understanding the Needs and Expectations of Interested Parties
		4.3	Determining the Scope of the Quality Management System
		8.4.2	Type and Extent of Control
		8.4.3	Information for External Providers
		8.6	Release of Products and Services
145.203	Work performed at another location	4.2	Understanding the Needs and Expectations of Interested Parties
		4.4.2	Quality Management and its Processes
		8.1	Operation Planning and Control

		8.5.1	Control of Production and Service Provision
145.205	Maintenance, preventive maintenance, and alterations performed for certificate holders under parts 121, 125, and 135, and for foreign air carriers or foreign persons operating a U.S.-registered aircraft in common carriage under part 129	4.2	Understanding the Needs and Expectations of Interested Parties
		4.3	Determining the Scope of the Quality Management System
		7.1.1	General
		8.2.2	Determining the Requirements for Products and Services
145.206	Notification of hazardous materials authorizations	4.2	Understanding the Needs and Expectations of Interested Parties
		7.4	Communication
		8.5.4	Preservation
145.207	Repair station manual	4.2	Understanding the Needs and Expectations of Interested Parties
		4.4.1	Quality Management and its Processes
		4.4.2	Quality Management and its Processes
		6.3	Planning of Changes
		7.4	Communication
		7.5.2	Creating and Updating
		7.5.3.1	Control of Documented Information
		7.5.3.2	Control of Documented Information
145.209	Repair station manual contents	4.3	Determining the Scope of the Quality Management System
		4.4.1	Quality Management and its Processes
		4.4.2	Quality Management and its Processes
		5.3	Organizational Roles, Responsibilities, and Authorities
		5.3.1	Accountable Manager
		5.3.2	Quality Manager
		5.3.3	Other Appointed Managers
		6.3	Planning of Changes
		7.1.1	General

		7.1.2	People
		7.1.3	Infrastructure
		7.2	Competence
		7.4	Communication
		7.5.2	Creating and Updating
		7.5.3.2	Control of Documented Information
		8.2.2	Determining the Requirements for Products and Services
		8.4.1	General
		8.4.1.1	General
		8.5.1	Control of Production and Service Provision
		8.5.1.4	Evaluation of a New Capability
145.211	Quality control system	4.2	Understanding the Needs and Expectations of Interested Parties
		4.4.1	Quality Management and its Processes
		4.4.2	Quality Management and its Processes
		5.1.1	General
		6.3	Planning of Changes
		7.1.5.1	General
		7.1.5.2	Measurement Traceability
		7.2	Competence
		7.4	Communication
		7.5.2	Creating and Updating
		7.5.3.2	Control of Documented Information
		8.1	Operation Planning and Control
		8.1.6	Installation of Approved Parts
		8.4.2	Type and Extent of Control
		8.5.1	Control of Production and Service Provision

		8.5.3	Property Belonging to Customers or External Providers
		8.6	Release of Products and Services
		10.1	General
		10.2.1	Nonconformity and Corrective Action
		10.2.2	Nonconformity and Corrective Action
145.213	Inspection of maintenance, preventive maintenance, or alterations	7.1.2	People
		7.2	Competence
		8.5.1	Control of Production and Service Provision
		8.6	Release of Products and Services
145.215	Capability list	4.2	Understanding the Needs and Expectations of Interested Parties
		4.3	Determining the Scope of the Quality Management System
		4.4.2	Quality Management and its Processes
		7.4	Communication
		7.5.2	Creating and Updating
		8.5.1.4	Evaluation of a New Capability
145.217	Contract maintenance	4.2	Understanding the Needs and Expectations of Interested Parties
		7.4	Communication
		8.4.1	General
		8.4.1.1	General
		8.4.2	Type and Extent of Control
		8.4.3	Information for External Providers
145.219	Recordkeeping	4.2	Understanding the Needs and Expectations of Interested Parties
		4.4.2	Quality Management and its Processes
		7.4	Communication
		7.5.3.2	Control of Documented Information

		8.6	Release of Products and Services
145.221	Service difficulty reports	4.2	Understanding the Needs and Expectations of Interested Parties
		7.4	Communication
		7.5.2	Creating and Updating
		8.1.3	Product Safety
		8.5.5	Post-Delivery Activities
		8.7.1	Control of Nonconforming Outputs
		8.7.2	Control of Nonconforming Outputs
		10.1	General
		10.2.1	Nonconformity and Corrective Action
		10.2.2	Nonconformity and Corrective Action
145.223	FAA inspections	4.2	Understanding the Needs and Expectations of Interested Parties

Change Control

Revision	Detail	Date
1.0	Initial issue as part of 9110:2016 (Rev C) Deployment Support Material	Dec 8th 2019
1.1	Update to the document introduction	Dec 12th 2019
1.2	Update to include the registered IAQG logo	Jan 20th 2020
1.3	Update to include additional references relating to Roles & Responsibilities, Control of Nonconformance and Corrective Action.	Apr 9th 2020