Documents are in Microsoft Word for ease of editing.

AS 9110 Rev. C

Quality Management Systems

Quality Manual / Documented Information

Document No. QM-9110-C

Street Address

City, State, Zip

Tel,

Cell Phone:

Blue text throughout the

Email:

manual highlight areas

Web Site:

for customization

INSERT YOUR COMPANY NAME HERE

Quality Manual

QM-9110-C

Instructions:

This manual is used as a template in developing your AS 9110 C Quality Management System.

- Methods and systems used in the development and operation of the QMS vary widely from company to company.
- The blue text and suggestions displayed in the manual are intended to offer some options and to highlight the areas that need attention / update / replacement.
- Review the text and suggestions and at a minimum replace or update them to reflect the unique / customized information of your quality system requirements.
- Delete the blue text after each task is completed.
- Use replace function enter "Your Company" in find space, enter your company name in replace space – system should make changes throughout the entire document.
- Additional details and instructions in the use of the QM-9110-C manual template are included in a separate file "QMS-Template-Instructions".

Additional documentation review.

 Similarly, the blue text and suggestions displayed in the QMS documentation (that will follow) for the procedures, instructions, attachments, forms, and flow diagrams are intended to offer some options and to highlight the areas that require update or replacement.

Blue text gives guidance for customization

Quality Manua	al- Rev-A		
QM-9110 -C	Approved by:	Date:	2

Quality Manual QM-9110-C

Table of Contents – (this page)

Introduction

Section A Scope of the Quality Management System

Section B References

a. Normative reference

b. Definitions

Quality Management System Requirements

Section C Document Information

- a. Distribution Control List
- b. Revision Status
- c. Quality Policy, Quality Objective, Strategic Direction,
- d. Safety Policy
- e. Organization Chart
- f. Company Background Products and Services
- g. Process Flow Diagram

Section D List of Documented Information for the AS standard clauses 4 through 10

Clause 4 Context of the Organization

Clause 5 Leadership

Clause 6 Planning

Clause 7 Support

Clause 8 Operation

Clause 9 Performance Evaluation

Clause 10 Improvement

Sections E, F, G, etc. Spares

Section R Records Documentation Matrix

Quality Manual- Rev-A		
QM-9110 -C Approved by:	Date:	3

Risks and Opportunities Guidelines

- The risks and opportunities are determined and addressed in order to ensure that the QMS can achieve its intended result(s), prevent, or reduce, undesired effects, and achieve continual improvement.
- Options to address risks and opportunities can include: avoiding risk, taking risk in order to pursue an
 opportunity, eliminating the risk source, changing the likelihood or consequences, sharing the risk, or
 retaining risk by informed decision.
- Actions to address the risks and opportunities are planned in order to integrate and implement them into the processes and to evaluate the effectiveness of these actions.
- Actions taken to address risks and opportunities are proportionate to the potential impact on the conformity of products and services.
- With inputs from the Quality team / ISO steering committee, this risk and opportunity worksheet is prepared by the Quality team leader / ISO management representative.
- The Quality team / ISO steering committee is responsible to set priorities for projects where risks and opportunities need to be addressed and to assign risk or opportunity project responsibilities.

The following instructions are used to assess the risks associated with the planning of the QMS processes and to assign priorities for the actions needed to address the risks and opportunities.

To determine the risks and opportunities that need to be addressed:

- In table below identify the activities/processes that are risk and opportunity candidates,
- Assign a value for each assessment category,
- R-values of 1 and 2 represent Risks/Threats, and O-values of 3 and 4 represent Opportunities.
- The project planning worksheet F-810-002 is used to plan high priority projects.

Customer Impact: How much does the customer care?

- 1 = Low customer priority
- 4 = Very important to the customer

Changeability Index: Can you fix it?

- 1 = Very Difficult / Expensive to fix
- 4 = Relatively easy / cheap to fix

Performance Status: How broken is it?

- 1 = Only a few problems in the past
- 4 = Always seems to be causing problems

Business Impact: How important is it to the business?

- 1 = Has little impact on the business
- 4 = Is very important to the business

Work Impact: What resources are available?

- 1 = People who have capability to work on this activity are scarce
- 4 = People who have capability to work on this activity can be available

Example of completed worksheet

This worksheet is used to identify the processes required for the Quality Management System. It is designed to ensure that all the requirements of the AS 9110 C standard are addressed and documented information available. In addition, the worksheet can be used as a training tool to help interested parties, such as employees, customers, auditors, and registrar understand your QMS.

PROCESS INPUTS - AS 9110 C for	PROCESS OUTPUTS Key Processes	DOCUMENTED INFORMATION	RESPONSIBILITY for Processes	REMARKS
Aviation Maintenance Organizations	Rey Flocesses	for Processes	101 Processes	KEWAKKS
Quality management systems - Requirements 1 Scope 2 Normative references 3 Terms and definitions	QMS-Manual	QM-9110-C Manual p.5 Manual p.6	President	
4 Context of the organization	Context of the organization	QMS-Section D		
4.1 Understanding the organization and its context	Organizational context	P-400	President	
	Context	P-400 par 5.1		
	Context of the organization worksheet	F-440-002	AS committee	
4.2 Understanding the needs and expectations of interested parties	Needs and expectations	P-400 par 5.2		
4.3 Determining the scope of the quality management system	Scope of the QMS	P-400 par 5.4		
4.4 Quality management system and its processes	Process interactions	P-400 par 5.5		
	Flow diagram	FD-440-001		
	QMS Process Identification	F-440-001	Management representative	This Form
4.4.1 The organization	Process support, confidence, and	P-400, par 5.6 – 5.7	,	
4.4.2 To the extent	documented information			

5 Leadership	Leadership	QMS-Section D	
5.1 Leadership and commitment	Leadership	P-500	President
5.1.1 General	Leadership and commitment	P-500, par 5.1	
	Business process map	FD-510-001	AS Committee
5.1.2 Customer focus	Customer focus	P-500, par 5.2	
5.2 Policy	Quality policy	P-500, par 5.3	AS Committee
5.2.1 Establishing the quality policy	Quality policy – attachment	A-520-001	
5.2.2 Communicating the quality policy	Communication	P-500, par 5.3.5	
5.2.3 Establishing and communicating the safety policy	Safety policy	P-500 par 5.4	AS Committee
policy	Safety policy - attachment	A-520-002	
5.3 Organizational roles, responsibilities, and authorities	Roles, responsibility, and authority	P-500 par 5.5	
	Management representative	P-500 par 5.5.2	
5.3.1 Accountable manager	Accountable manager	P-500 par 5.5.3	
5.3.2 Quality manager 5.3.3 Other appointed managers	Quality manager Other managers	P-500 par 5.5.4 P-500 par 5.5.5	
3.3.3 Other appointed managers	Other managers	1 -300 par 3.3.3	
	Organization chart	A-530-001	H R manager
6 Planning	Planning for the QMS	QMS-Section-D	
6.1 Actions to address risks and opportunities	Planning for the QMS	P-600	Management rep
6.1.1 When planning for the QMS	Planning the QMS	P-600, par 5.1	
6.1.2 The organization shall plan	Risk management- QMS Planning	P-600, par. 5.3	

INSERT YOUR COMPANY LOGO/NAME HERE

P-830-A

Design and Development

1.0 Purpose/Scope

- 1.1 This procedure describes the process for controlling of technical data for maintenance services to ensure t Company" with your own services at Your Company.

 This procedure describes the process for controlling of technical data for maintenance services to ensure t Company with your own company name.
- 1.2 Maintenance service providers typically do not design and development products and this procedure applies to the design and development of technical data for maintenance programs.

2.0 Responsibilities and Authorities

- 2.1 The Research & Development / Technical manager has the prime responsibility and approval authority for this procedure.
- 2.2 In support of the Research & Development / Technical manager, the Project manager / design engineer are responsible for initiating the design plan, getting appropriate approvals and holding design reviews.
- 2.3 Additional responsibilities for project manager / design engineer / design team / sales and marketing personnel are detailed in relevant paragraphs of section 5.0.

3.0 References and Definitions

- 3.1 Reference: This document relates to clause 8.3 of the AS 9110 C standard covering, Design and development of products and services.
- 3.2 Definitions
 - 3.2.1 Design Verification: Determination that the product meets requirements.
 - 3.2.2 Design Validation: Determination of the product's ability to meet user needs.
 - 3.2.3 Design Changes: Changes made to the inputs or plan during design and development activities.

4.0 Resources

4.1 None

5.0 Instructions

- 5.1 In support of the planning procedures P-810 for Operational planning and control, and P-910 for Monitoring, measurement, analysis and evaluation, design and development projects are initiated and planned for new technical data needed for maintenance programs.
 - 5.1.1 Design projects detail the requirements for products and services so that they are adequate for subsequent production or service provision.
 - 5.1.2 When authorized by the competent authority, a process for the development of technical data is established, implemented, and maintained.
 - 5.1.3 When developing repair data, the following are specified:

INSERT YOUR COMPANY LOGO/NAME HERE

P-830-A

Design and Development

- · Classification of the repair such as minor, or major
- Description of the repair
- Evidence of approval.
- You may want to categorize the project on a scale of 1 to 10 where 10 indicates a complex (major) project and 1 a simple (minor) project.
- 5.1.4 When developing aircraft maintenance programs for continuing airworthiness, a process to ensure the control and availability of the aircraft and engine statuses and the preparation of the work order is maintained.
 - When developing, and revising aircraft maintenance programs, maintenance schedules, such as maintenance planning data, as developed by the type certificate holders are used and consider the specific needs of the aircraft operator.
- 5.2 The R&D manager designates a project manager / project engineer for the project, assigns a project number, and logs the project in the log.
 - 5.2.1 The project manager starts a Project plan to determine the stages and controls for design and development. Related documents are referenced.
 - 5.2.2 The Design plan, form F-830-001 considers the:
 - Nature, duration and complexity/simplicity of the design and development activities,
 - Responsibilities and authorities of the design team involved in the design and development process,
 - Internal and external resources needed for design and development,
 - Need to control interfaces between individuals and parties involved in the design and development process,
 - Requirements that specify process stages, including applicable design inputs and design and development reviews,
 - Required design and development verification and validation,
 - Need for involvement of customer and user groups in the design and development process,
 - Level of control expected of the design and development process by customers and other relevant interested parties,
 - Necessary documented information and approvals to confirm that design and development requirements have been met.
- 5.3 The design team collects design inputs and documents them on the design plan or on an attachment to the design plan.
 - 5.3.1 Inputs include:
 - Functional and performance requirements essential to the products and services,
 - Applicable statutory and regulatory requirements,
 - Standards or codes of practice;