

AERONAUTICAL INFORMATION CIRCULAR - MOZAMBIQUE
CIVIL AVIATION REGULATORY AUTHORITY OF MOZAMBIQUE
AERODROME AND AIR NAVIGATION DIVISION
AERONAUTICAL INFORMATION SERVICE

Tel: (258) 21-465416
Fax: (258) 21-465415
AFTN: FQHQYSYX
iacm@tvcabo.co.mz
ais@iacm.gov.mz
www.iacm.gov.mz

ALAMEDA DO AEROPORTO
Caixa Postal, 227 - Maputo

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ADVISORY

QUALITY ASSURANCE SYSTEM

1. AUTHORITY

This Circular is issued under the authority of the Chairman of the Board of Directors of the Civil Aviation Institute of Mozambique (IACM), pursuant to Article 19 of Law 05/2016 of 14 June and the paragraph g) of Article 12 of Resolution 19/2011 of 30 November.

2. OBJECTIVE

This Advisory Circular (AC) provides information and guidance that may be used by Aerodrome operator certificate (AOC) holders, approved maintenance organizations (AMO) and approved training organizations (ATO) to design or develop a Quality System acceptable to the Authority.

3. APPLICABILITY

The Guidance Materials, apply to all Aerodrome Operators, who operate in Mozambique.

4. REFERENCES

- 1) MOZ CAR 139
- 2) MOZCATS 139

5. GUIDANCE AND PROCEDURES

5.1 General Information:

The following key terms and phrases are defined to ensure a standard interpretation and understanding of the elements of a Quality System. These terms and definitions when used in the context of this Advisory Circular have the following meanings:

5.1.1 Quality Management System – is the documented internal activities and management functions of an operator/organization that determines the quality policy, objectives, responsibilities and their implementation through quality planning, quality control, quality assurance and quality improvement.

5.1.2 Quality Manual – it is the document that describes the operator's/organization's quality system, it states the certificate holder's policy on, and commitment to, quality. It is the reference Manual that serves as a reference point in reviewing and evaluating an operator's quality system by both the internal and Authority quality audits.

5.1.3 The Quality Policy – An operator/organization should establish a formal written Quality Policy Statement; this is a commitment by the Accountable Manager on behalf of the organization to what the Quality System is intended to achieve. The Quality Policy should reflect achievement and continued compliance with Civil Aviation Regulations.

5.1.4 Purpose of a Quality System – The Quality System required by the Civil Aviation Regulations enables the operator/organization to monitor compliance with relevant Civil Aviation Regulations and any other standards specified by that operator/organization, or the Authority, to ensure safe operations of aircraft. And it is a function of the Quality Manager monitor and to ensure the organization maintains compliance with the established quality standards.

5.1.5 The Quality Assurance Programme – Shall include all planned and systematic actions necessary to provide confidence that all operations and maintenance are conducted in accordance with all applicable requirements, standards and operational procedures. Quality Inspections, Quality Audits and Management Evaluations are the principal components of a Quality Assurance Programme.

5.1.6 Quality Inspections – The primary purpose of a quality inspection is to observe a *particular event/action/document* etc., in order to verify whether established operational procedures and requirements are followed during the accomplishment of that event and whether the required standard is achieved. Quality managers are examples of personnel that conduct quality inspections in the performance of their duties. Quality Inspections are referred to as Quality Control processes.

5.1.7 Quality Audits

- a) An audit differs from a quality inspection in that it is a systematic and *independent* comparison of the way in which *an operation* is being conducted against the way in which the published

operational procedures say it should be conducted. Quality Audits are referred to as Quality Assurance processes.

- b) Unlike quality inspectors, auditors should *not have* any day-to-day involvement in the *area of the operation that* is to be audited. The operator's/organization Quality Assurance Programme should identify the persons within the company who have the experience, responsibility and authority to perform the audit functions and report to the Manager Quality Assurance.
- c) Small organizations that may find it difficult to engage full-time dedicated audit personnel belonging to a separate quality department, may undertake the monitoring of specific areas or activities by the use of authorized part-time auditors.
- d) Where external auditors are used, it is essential that the external specialist is acceptable to the Authority and is familiar with the type of operation conducted by the operator.
- e) Whatever the case, the responsibilities of the auditors should be clearly defined in the relevant documentation.

5.1.8 Feedback System

- a) The quality system should include a feedback system to the Accountable Manager, as required by the regulations to ensure that corrective actions are both identified and promptly addressed. The feedback system should also specify who is required to rectify discrepancies and non-compliance in each particular case, and the procedure to be followed if corrective action is not completed within specified time limits.
- b) Any non-compliance identified as a result of monitoring should be communicated by the Quality Manager to the *manager responsible for taking corrective action* or, if appropriate, to the *Accountable Manager*. Such non-compliance should be recorded, for the purpose of further investigation, in order to determine the cause and to enable the recommendation of appropriate corrective action.

5.1.9 Internal Audit Scheduling – An operator/organization should establish a schedule of audits to be completed during a specified calendar period. All aspects of the operation should be reviewed within every period of 12 months in accordance with the programme. An operator/organization may increase the frequency of audits at his discretion but should not decrease the frequency without the agreement of the Authority.

5.1.10 Quality System

a) The Quality System should be structured according to the size and complexity of the operation to be monitored, and it shall incorporate the following safety attributes into the organization policies, procedures and processes:

- i. *Authority* – There should be a clearly identifiable, qualified and knowledgeable person with the authority to establish and modify processes.
- ii. *Responsibility* – There should be a clearly identifiable, qualified and knowledgeable person who is accountable for the quality of the processes.
- iii. *Procedures* – There must be documented methods for accomplishing the processes.
- iv. *Controls* – There should be checks and restraints designed into the operator's processes that assure the desired result are achieved.
- v. *Process Measurements – Methods* identified to compel the operator to measure and assess its processes for the purpose of identifying and correcting problems or potential problems.
- vi. *Interfaces* – It should be identifiable how the operator's policies and procedures interact between processes.

b) As a minimum, the Quality System should address the following:

- i. The provisions of Civil Aviation Regulations;
- ii. Additional standards and operating procedures;
- iii. Quality Policy (Mission Statement);
- iv. Organizational structure;
- v. Identification of those persons responsible for the development, establishment and management of the Quality System;
- vi. Documentation, including manuals, reports and records including a distribution list of controlled copies;
- vii. Quality Procedures;
- viii. The Quality Assurance Programme;
- ix. The required financial, material, and human resources; and
- x. Training requirements.

c) **Audit Scope** – Operators/Organizations are required to monitor compliance with the operational procedures they have designed to ensure safe operations and safety equipment. In doing so they should as a minimum and as applicable, monitor:

- i. Organization, Plans and Company objectives;
- ii. Operational Procedures;
- iii. Supervision;
- iv. Communications and Navigational Equipment;
- v. Manuals, Logs and Records; and
- vi. Training.

d) Corrective action – following the quality inspection/audit, the operator/organization shall establish:

- i. The seriousness of any findings and any need for immediate corrective action;
- ii. The origin of the finding;
- iii. What corrective actions are required to ensure that the non-compliance does not be a recurring issue;
- iv. A schedule for corrective action;
- v. The identification of individuals or departments responsible for implementing corrective action;
- vi. Allocation of resources by the Accountable Manager, where appropriate.

e) Recording

The operator/organization shall maintain accurate, complete, and readily accessible records documenting the results of the Quality Assurance Programme, as required by Regulations. Records are essential data to enable an operator/organization to analyse and determine the root causes of non-conformity, so that areas of non-compliance can be identified and addressed.

The following records shall be retained for future audit purposes:

- i. Audit Schedules;
- ii. Quality inspections and Audit reports;
- iii. Responses to findings;
- iv. Corrective action reports;
- v. Follow-up and closure reports; and
- vi. Management Evaluation reports

f) Quality Assurance Of Sub-Contracted Activities

Operators/Organizations may decide to sub-contract out certain activities to external agencies. However, the ultimate responsibility for the product or service provided by the sub-contractor remains

with the operator/organization. A written agreement should exist between the operator/organization and the sub-contractor clearly defining the safety related services and quality to be provided. The sub-contractor's safety related activities relevant to the agreement should be included in the operator's/organization's Quality Assurance Programme.

The operator/organization should ensure that the sub-contractor has the necessary authorization/approval when required and commands the resources and competence necessary to undertake the task. If the operator/organization requires the sub-contractor to conduct an activity that exceeds the sub-contractor's authorization/approval, the operator/organization is responsible for ensuring that the sub-contractor's quality assurance takes account of such additional requirements.

g) Quality System Training

- a) An operator/organization should establish an effective, well-planned and resourced quality-related briefing for all personnel.
- b) Those responsible for managing the Quality System shall receive training covering the following topics:
 - i. An introduction to the concept of the Quality System;
 - ii. Quality management;
 - iii. The concept of Quality Assurance;
 - iv. Quality manuals;
 - v. Audit techniques;
 - vi. Reporting and recording; and
 - vii. The way in which the Quality System will function in the company.

6. QUALITY SYSTEMS FOR SMALL OPERATORS/ORGANIZATIONS

6.1 The requirement to establish and document a Quality System and to employ a Quality Manager applies to all operators/organizations. In the context of quality systems, operators/organizations shall be categorized according to the number of full time staff employees.

6.2 Scale of Operation – Operators/organizations who employ less than 20 full time employees are regarded as 'small' operators as far as quality systems are concerned. Full-time in this context means employed for not less than 40 hours per week excluding vacation periods.

6.3 Complex quality systems could be inappropriate for small operators/organizations and the clerical effort required drawing up manuals and quality procedures for a complex system may stretch their

resources. It is therefore accepted that such operators should tailor their quality systems to suit the size and complexity of their operation and allocate resources accordingly.

6.4 The 'small' operator/organization may decide to use internal or external auditors or a combination of the two. In these circumstances it would be acceptable for external specialists and/or qualified organizations to perform the quality audits on behalf of the Quality Manager.

6.5 If external auditors are conducting the independent quality audit function, the audit schedule shall be shown in the relevant documentation.

6.6 Whatever arrangements are made, the operator/organization retains the ultimate responsibility for the quality system and especially the completion and follow-up of corrective actions.

7. ENTRY IN TO FORCE

This AIC enters into force on the date of its publication

CIVIL AVIATION REGULATORY AUTHORITY OF MOZAMBIQUE

THE CHAIRMAN OF THE BOARD AND CEO



/ Emanuel José da Conceição Chaves /

APPENDIX A

Example of a compliant quality manual outline

I. ADMINISTRATION AND CONTROL OF THE QUALITY MANUAL

A Record of Revisions;

B List of Effective Pages;

C Distribution

- 1) Authorized Holders
- 2) Distribution List

D Manual Structure;

E Table of Contents;

F Abbreviations and Acronyms.

II. GENERAL ORGANIZATION

A Foreword

B (Name of Company/Operator)

- (1) Brief History of the Company
- (2) Company Resources
 - (a) Human Resources
 - (b) Fleet Composition

C Company Organizational Structure

D Key Personnel Locator

III. REGULATORY REFERENCES

A Compliance Statement

IV. DEFINITIONS AND TERMINOLOGY

V. QUALITY MANAGEMENT SYSTEM

A Purpose and Scope

B Quality Policy

C (Company/Operator) Management Responsibility

D Quality Assurance Programme

(1) Quality Assurance Organizational Structure

(2) Quality Unit

(a) Quality Manager/s

- (1) Airport Operations Quality Manager
- (2) Commitment to Apply Uniform Quality System

(b) Quality Auditors

APPENDIX A (continued)

- (1) Auditor's Independence
 - (2) Authorized Internal Quality Auditors
- (c) Quality Unit Facilities

- (3) Monitoring System**
 - (a) Scope of the Monitoring System
 - (b) Inspections/ Checks and Supervision
 - (1) Inspections / Checking and Supervision Procedures and Techniques
 - (2) Inspectors / Check Pilots/Airman and Supervisors
 - (c) Quality Auditing
 - (1) External Auditing

- (4) Quality Audit Procedures**
 - (a) Quality Audit-Annual Schedule
 - (b) Quality Audit Planning
 - (1) Quality Audit Scope
 - (2) Quality Audit Timetable
 - (3) Quality Audit Team
 - (4) Special Audit Requirements
 - (c) Pre-Audit Briefing
 - (d) Auditing
 - (1) Auditing Techniques
 - (2) Audit Report
 - (e) Quality Audit-Corrective Action Request
 - (1) Findings Analysis and Classification
 - (2) Designation of Responsible Manager for Corrective Action Implementation
 - (f) Post-Audit Briefing
 - (g) Corrective Action
 - (1) Corrective Action Plan
 - (2) Time Limit Definition
 - (h) Corrective Action Follow-Up and QACAR Closure
 - (i) Audit Closure Report
 - (1) Unscheduled Audits
 - (2) Quality Audit Records

APPENDIX A (continued)

E Operator's Security Programme

- (1) Information Promulgation System
 - (a) Operator's Requirements Base Structure and Hierarchy
 - (b) Allocation of Editorial Responsibilities

F Document Control Procedures

- (1) Authorization
- (2) *Adequacy Check*
- (3) Security Classification
- (4) Document Standard Form
 - (a) Revision and Amendment Control
 - (1) Record of Revisions
 - (2) List of Effective Pages
 - (3) Tracking of Changes
- (5) Distribution
- (6) Storage
 - (a) Airport Operations Documents Storage
 - (b) Maintenance Documents Storage
- (7) Subsequent Periodic Review
- (8) Disposition of Obsolete Documents

G Operator's Management Evaluation

- (1) Management Evaluation Report

H Quality System Training

I Quality System Records

- (1) Records Maintenance
- (2) Storage Period