

INTRODUCTION

Part 6 of the Regulations provides regulations for the certification and monitoring of Approved Maintenance Organisations (AMO).

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S. I. No. 19 of 2009

6.1 GENERAL

6.1.1.1.—(a) Part 6 prescribes the requirements for issuing approvals to organisations for the maintenance preventive maintenance, and alterations of aircraft and aeronautical products and prescribes the general operating rules for an Approved Maintenance Organisation (AMO). Applicability.

6.1.1.2.—(a) For the purpose of Part 6, the following definitions shall apply— Definitions.

(1) *Accountable manager*— The person acceptable to the Authority who has corporate authority for ensuring that all operations and maintenance activities can be financed and carried out to the standard required by the Authority, and any additional requirements defined by the operator.

(2) *Approval for return to service*— See maintenance release.

(3) *Approved data*—Technical information approved by the Authority.

(4) *Approved Maintenance Organisation (AMO)*—An organisation approved to perform specific aircraft maintenance activities by the Authority. These activities may include the inspection, overhaul, maintenance, repair and/or alteration and release to service of aircraft or aeronautical products.

(5) *Article*—Any item, including but not limited to, an aircraft, airframe, aircraft engine, propeller, appliance, accessory, assembly, subassembly, system, subsystem, component, unit, product, or part.

(6) *Calibration*—A set of operations, performed in accordance with a definite documented procedure that compares the measurement performed by a measurement device or working standard with a recognised Bureau of Standards for the purpose of detecting and reporting or eliminating adjustment errors in the measurement device, working standard, or aeronautical product tested.

(7) *Composite*— Structural materials made of substances, including, but not limited to, wood, metal, ceramic, plastic, fiber-reinforced materials, graphite, boron, or epoxy, with built-in strengthening agents that may be in the form of filaments, foils, powders, or flakes, of a different material.

(8) *Computer system*—Any electronic or automated system capable of receiving, storing, and processing external data, and transmitting and presenting such data in a usable form for the accomplishment of a specific function.

(9) *Directly in charge*—Means an appropriately licensed person having the responsibility for the work of an approved maintenance organisation that performs maintenance, preventive maintenance, alterations, or other functions affecting aircraft airworthiness. A person directly in charge does not need to physically observe and direct each worker constantly but must be available for consultation on matters requiring instruction or decision from higher authority.

(10) *Facility*—A physical plant, including land, buildings, and equipment, which provide the means for the performance of maintenance, preventive maintenance, or alterations of any article.

(11) *Housing*—Buildings, hangers, and other structures to accommodate the necessary equipment and materials of a maintenance organisation that—

(i) Provide working space for the performance of maintenance, preventive maintenance, or alterations for which the maintenance organisation is approved and rated ; and

(ii) Provide structures for the proper protection of aircraft, airframes, aircraft engines, propellers, appliances, components, parts, and subassemblies thereof during disassembly, cleaning, inspection, repair, alteration, assembly, and testing ; and

(iii) Provide for the proper storage, segregation, and protection of materials, parts, and supplies.

(12) *Line maintenance*—Any unscheduled maintenance resulting from unforeseen events, or scheduled checks that contain servicing and/or inspections that do not require specialised training, equipment, or facilities.

(13) *Maintenance release*—A document which contains a certification confirming that the maintenance work to which it relates has been completed in a satisfactory manner, either in accordance with the approved data and the procedures described in the maintenance organisation's procedures manual or under an equivalent system.

(14) *Primary Standard*—A standard defined and maintained by a State Authority and used to calibrate secondary standards.

(15) *Reference Standard*—A standard that is used to maintain working standards.

(16) *Secondary Standards*—A standard maintained by comparison with a primary standard.

(17) *Specialised maintenance*—Any maintenance not normally performed by an AMO (e.g., tire retreading, plating, etc).

(18) *Standard*—An object, artifact, tool, test equipment, system, or experiment that stores, embodies, or otherwise provides a physical quantity, which serves as the basis for measurement of the quantity. It also includes a document describing the operations and process that must be performed in order for a particular end to be achieved.

(19) *Traceability*—A characteristic of a calibration, analogous to a pedigree. A traceable calibration is achieved when each Measurement Device and Working Standard, in a hierarchy stretching back to the National Standard, was itself properly calibrated, and the results properly documented. The documentation provides the information needed to show that all calibrations in the chain of calibrations were properly performed.

(20) *Transfer Standard*—Any standard that is used to compare a measurement process, system, or device at one location or level with another measurement process, system or device at another location or level.

6.1.1.3.—(a) The following abbreviations are used in Part 6.

Applicability.

(1) AAT – Approved Airworthiness Tag

(2) AMO – Approved Maintenance Organisation.

(3) AME – Aircraft Maintenance Engineer.

(4) ARS – Aviation Repair Specialist

(5) NDT – Non-Destructive Testing

(6) PAH - Production Approval Holder

(7) TSO – Technical Standard Order.

6.2 CERTIFICATION OF A MAINTENANCE ORGANISATION AND CONTINUED VALIDITY

6.2.1.1.—(a) This section prescribes the requirements for the certification of a maintenance organisation and continued validity of the certificate.

General.

6.2.1.2.—(a) No person may operate as an approved maintenance organisation without, or in violation of, an approved maintenance organisation certificate, ratings or operations specifications issued under this part.

(b) The certificate and operations specifications issued to an approved maintenance organisation must be available on the premises for inspection by the public and the Authority.

6.2.1.3.—(a) The AMO certificate shall consist of two documents—

Approved
Maintenance
Organisation
Certificate.

(1) A one page certificate signed by the Authority; and

(2) A multi-page operations specifications signed by the Accountable Manager and the Authority containing the terms, conditions, and authorisations.

(b) An approved maintenance organisation may perform maintenance, preventive maintenance, or alterations on an aircraft, airframe, aircraft engine, propeller, appliance, component, or part thereof only for which it is rated and within the terms, conditions, and authorisations placed in its operations specifications.

(c) The AMO certificate shall contain the following items and be in a format as shown in IS: 6.2.1.3—

(1) The certificate number specifically assigned to the AMO ;

(2) The name and location (main place of business) of the AMO ;

(3) The date of issue and period of validity ;

(4) The ratings issued to the AMO ; and

(5) Authority signature.

(d) The AMO operations specifications shall contain—

- (1) The certificate number specifically assigned to the AMO ;
- (2) The class or limited ratings issued in detail, including special approvals and limitations issued;
- (3) The date issued or revised;
- (4) Accountable manager and Authority signatures; and
- (5) The certificate issued to each certificated maintenance organisation must be available in the premises for inspection by the public and the Authority.

Advertising.

6.2.1.4.—(a) No approved maintenance organisation may advertise as a certificated approved maintenance organisation until an approved maintenance organisation certificate has been issued to that facility.

(b) No certificated approved maintenance organisation may make any statement, either in writing or orally, about itself that is false or is designed to mislead any person.

(c) Whenever the advertising of an approved maintenance organisation indicates that it is certificated, the advertisement must clearly Nigeria the approved maintenance organisation’s certificate number.

Application for an AMO Certificate.

6.2.1.5.—(a) The Authority will require an applicant for approval of a maintenance organisation to submit the following—

- (1) An application in a form and a manner prescribed by the Authority, as contained in IS: 6.2.1.5 ;
- (2) Its Maintenance Procedures Manual in duplicate ;
- (3) A list of the maintenance functions to be performed for it, under contract, by another AMO ;
- (4) A list of all AMO certificates and ratings pertinent to those certificates issued by any contracting State other than Nigeria ;
- (5) Documentation of the maintenance organisation’s Quality System; and
- (6) Any additional information the Authority requires the applicant to submit.

(b) An application for the amendment of an existing AMO certificate shall be made on a form and in a manner prescribed by the Authority. The application shall be signed by the Accountable Manager of the AMO. If applicable, the AMO shall submit the required amendment to the Maintenance Procedures Manual to the Authority for approval.

Issuance of an AMO Certificate.

6.2.1.6.—(a) An applicant may be issued an AMO certificate if, after investigation, the Authority finds that the applicant—

- (1) Meets the applicable regulations and standards for an AMO certificate,

(2) Is properly and adequately equipped for the performance of maintenance of aircraft or aeronautical product for which it seeks approval; and

(3) Has paid the fees and charges prescribed by the Authority.

6.2.1.7.—(a) A certificate or rating issued to an approved maintenance organisation located either inside or outside Nigeria is effective from the date of issue until—

Duration and
Renewal of
AMO
Certificate.

(1) The last day of the 24th month after the date on which it was issued,

(2) The approved maintenance organisation surrenders the certificate, or

(3) The Authority suspends or revokes the certificate.

(b) The holder of a certificate that expires or is surrendered, suspended, or revoked by the Authority must return the certificate and operations specifications to the Authority.

(c) A certificated approved maintenance organisation that applies for a renewal of its approved maintenance organisation certificate for aircraft registered in Nigeria must submit its request for renewal no later than 90 days before the approved maintenance organisation's current certificate expires. If a request for renewal is not made within this period, the approved maintenance organisation must follow the application procedure prescribed by the Authority.

6.2.1.8.—(a) Unless the approval has previously been surrendered, superseded, suspended, revoked or expired by virtue of exceeding any expiration date that may be specified in the approval certificate, the continued validity of approval is dependent upon—

Continued
Validity of
Approval.

(1) The AMO remaining in compliance with this Part ;

(2) The Authority being granted access to the organisation's facilities to determine continued compliance with this regulation; and

(3) The payment of any charges prescribed by the Authority.

6.2.1.9.—(a) To enable the Authority to determine continued compliance with this Part, the AMO shall provide written notification to the Authority either prior to, or within a time period determined by the Authority to be as soon as practicable after, any of the following changes—

Changes to
the AMO and
Certificate
Amendments.

(1) The name of the organisation ;

(2) The location of the organisation ;

(3) The housing, facilities, equipment, tools, material, procedures, work scope and certifying staff that could affect the AMO rating or ratings ;

(4) The addition, amendment or deletion of ratings held by the AMO, whether granted by the Authority or held through an AMO certification issued by another contracting State ;

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- (5) Additional locations of the organisation ;
- (6) The accountable manager ;
- (7) The suspension, revocation or expiration of a maintenance organisation certificate issued to the AMO by another contracting State ; or

(8) The list of management personnel identified as described in the Maintenance Procedures Manual.

(b) The Authority will amend the AMO certificate if the AMO notifies the Authority of a change in—

- (1) Location or housing and facilities ;
- (2) Additional locations of the organisation ;
- (3) Rating, including deletions ;
- (4) Name of the organisation with same ownership ; or
- (5) Ownership.

(c) The Authority may amend the AMO certificate if the AMO notifies the Authority of a change in—

- (1) The accountable manager ; or
- (2) The list of management personnel identified as described in the Maintenance Procedure Manual.

(d) When the Authority issues an amendment to an AMO certificate because of new ownership of the AMO, the Authority will assign a new certificate number to the amended AMO certificate.

(e) The Authority may—

(1) Prescribe, in writing, the conditions under which the AMO may continue to operate during any period of implementation of the changes noted in subparagraph (a) ; and

(2) Hold the AMO certificate in abeyance if the Authority determines that approval of the AMO certificate shall be delayed; the Authority will notify the AMO certificate holder, in writing, of the reasons for any such delay.

(f) If changes are made by the AMO to the items listed in subparagraph (a) without notification to the Authority and amendment of the AMO certificate by the Authority, the AMO certificate may be suspended, or revoked, by the Authority.

Ratings of the AMO

6.2.10.—(a) The following ratings are issued under this Subpart—

- (1) *Airframe ratings.*
 - (i) Class 1: Composite construction of small aircraft.
 - (ii) Class 2: Composite construction of large aircraft.
 - (iii) Class 3: All-metal construction of small aircraft.

(iv) Class 4: All-metal construction of large aircraft.

(2) *Powerplant ratings.*

(i) Class 1: Piston engines of 400 horsepower or less.

(ii) Class 2: Piston engines of more than 400 horsepower.

(iii) Class 3: Turbine engines.

(3) *Propeller ratings.*

(i) Class 1 : Fixed-pitch and ground-adjustable propellers of wood metal or, composite construction.

(ii) Class 2 : Other propellers, by make.

(4) *Avionics/radio ratings.*

(i) Class 1: Communication equipment: Radio transmitting equipment or receiving equipment, or both, used in aircraft to send or receive communications, regardless of carrier frequency or type of modulation used; including auxiliary and related aircraft interphone systems, amplifier systems, electrical or electronic inter-crew signaling devices, and similar equipment; but not including equipment used for navigation of the aircraft or as an aid to navigation, equipment for measuring altitude or terrain clearance, other measuring equipment operated on radio or radar principles, or mechanical, electrical, gyroscopic, or electronic instruments that are a part of communications radio equipment.

(ii) Class 2: Navigational equipment: A radio system used in aircraft for en-route, approach navigation, to include the flight director system, except equipment operated on radar or pulsed radio frequency principles, but not including equipment for measuring altitude or terrain clearance or other distance measuring equipment operated on pulsed radio frequency principles.

(iii) Class 3: Pulsed equipment: Any aircraft electronic system operated on pulsed radio frequency principles.

(5) *Instrument ratings.*

(i) Class 1: Mechanical: Any diaphragm, bourdon tube, aneroid, optical, or mechanically driven centrifugal instrument that is used on aircraft or to operate aircraft, including tachometers, airspeed indicators, pressure gauges, drift sights, magnetic compasses, altimeters, or similar mechanical instruments.

(ii) Class 2: Electrical: Any self-synchronous and electrical indicating instruments and systems, including remote indicating instruments, cylinder head temperature gauges, or similar electrical instruments.

(iii) Class 3: Gyroscopic: Any instrument or system using gyroscopic principles and motivated by air pressure or electrical energy, including automatic pilot control units, turn and bank indicators, directional gyros, and their parts, and flux gate and gyrosyn compasses.

(iv) Class 4: Electronic: Any instruments whose operation depends on electron tubes, transistors, electronic displays, or similar devices including capacitance type quantity gauges, system amplifiers, and engine analysers.

(6) *Accessory ratings.*

(i) Class 1: Mechanical. The accessories that depend on friction, hydraulics, mechanical linkage, or pneumatic pressure for operation, including aircraft brakes, mechanically driven pumps, carburetors, aircraft wheel assemblies, shock absorber struts and hydraulic servo units.

(ii) Class 2: Electrical. The accessories that depend on electrical energy for operation, and generators, including starters, voltage regulators, electric motors, electrically driven fuel pumps, magnetos, or similar electrical accessories.

(iii) Class 3: Electronic. The accessories that depend on the use of an electron tube transistors, or similar device, including supercharger, temperature, air conditioning controls, or similar electronic controls.

AMO
Limited
Ratings.

6.2.11.—(a) Whenever the Authority finds it appropriate, it may issue a limited rating to an *AMO* that maintains or alters only a particular type of airframe, powerplant, propeller, radio, instrument, or accessory, or parts thereof, or performs only specialised maintenance requiring equipment and skills not ordinarily found in an *AMO*. Such a rating may be limited to a specific model aircraft, engine, or constituent part, or to any number of parts made by a particular manufacturer.

(b) Limited ratings are issued for—

- (1) Airframes of a particular make and model ;
- (2) Powerplants of a particular make and model ;
- (3) Propellers of a particular make and model ;
- (4) Radio equipment of a particular make and model ;
- (5) Instruments of a particular make and model ;
- (6) Accessories of a particular make and model ;
- (7) Landing gear components ;
- (8) Floats, by make ;
- (9) Nondestructive inspection, testing, and processing ;
- (10) Emergency equipment ;
- (11) Rotor blades, by make and model ;
- (12) Aircraft fabric work; and
- (13) Any other purpose for which the Authority finds the applicant's request appropriate.

(c) Specialised service ratings. A specialised service rating may be issued to a maintenance organisation to perform specific maintenance or processes. The operating specifications of the approved maintenance organisation must identify the specification used in performing that specialised service. The specification may be—

(1) A civil or military specification that is currently used by industry and approved by the Authority ; or

(2) A specification developed by the approved maintenance organisation and approved by the Authority.

6.2.1.12.—(a) The AMO shall establish a quality system and designate a quality manager to monitor compliance with, and adequacy of, procedures required to ensure safe maintenance practices and airworthy aircraft. Compliance monitoring shall include a feedback system to the accountable manager to ensure corrective action as necessary. Quality System.

(b) The quality system, and the quality manager, shall be acceptable to the Authority.

(c) Each AMO shall ensure that the quality system includes a quality assurance programme that contains procedures designed to monitor compliance with required aircraft and aircraft component standards and adequacy of the procedures to ensure that such procedures invoke good maintenance practices and airworthy aircraft and aircraft components.

(d) The quality assurance system shall include a procedure to initially qualify and periodically perform audits on persons performing work on behalf of the AMO.

(e) The quality system shall include a feedback system to the designated management person or group of persons directly responsible for the quality system and ultimately to the Accountable Manager that ensures, as necessary, proper and timely corrective action is taken in response to reports resulting from the independent audits.

(f) The AMO's quality system shall be sufficient to review all maintenance procedures, as described in the Maintenance Control Manual and the Maintenance Procedures Manual, in accordance with an approved program once a year.

(g) The AMO's quality system shall indicate when audits are due, when completed, and establish a system of audit reports, which can be seen by visiting Authority staff on request. The audit system shall clearly establish a means by which audit reports containing observations about non-compliance or poor standards are communicated to the Accountable Manager.

(h) If the AMO is a small organisation, the independent audit part of the quality system may be contracted to another organisation approved under this part or a person with appropriate technical knowledge and proven satisfactory audit experience such as ISO 9000 qualification.

(i) Where the *AMO* is part of an *AOC* under Part 9, the *AOC* holder's quality management system may be combined with the requirements of an *AMO* and submitted for acceptance to the Authority.

(j) Each *AMO* shall describe the quality system in relevant documentation as outlined in IS: 6.2.1.12.

6.3 HOUSING, FACILITIES, EQUIPMENT, MATERIALS AND DATA

General

6.3.1.1.—(a) A certificated approved maintenance organisation must provide, housing, facilities, equipment, materials, and data in quantity and quality that meet the standards required for the issuance of the certificate and ratings that the approved maintenance organisation holds.

Housing and Facility Requirements.

6.3.1.2.—(a) Housing for the facilities, equipment, materials, and personnel shall be provided appropriate for all planned work ensuring, in particular, protection from weather.

(b) All work environments shall be appropriate for the task carried out and shall not impair the effectiveness of personnel.

(c) Office accommodation shall be appropriate for the management of planned work including, in particular, the management of quality, planning, and technical records.

(d) Specialised workshops and bays shall be segregated, as appropriate, to insure that environmental and work area contamination is unlikely to occur.

(e) Storage facilities shall be provided for parts, equipment, tools, and material.

(f) Storage conditions shall provide security for serviceable parts, segregate serviceable from unserviceable parts, and prevent deterioration of and damage to stored items.

(g) An *AMO* with an airframe rating shall provide suitable permanent housing to enclose the largest type and model of aircraft listed on its operations specifications.

(h) An *AMO* may perform maintenance, preventive maintenance, or alterations on articles outside of its housing if it provides suitable facilities that are acceptable to the Authority.

(i) See IS: 6.3.1.2 for detailed requirements pertaining to housing and facilities.

Equipment, tools, Material

6.3.1.3.—(a) The *AMO* shall have available the necessary equipment, tools, and material to perform the approved scope of work and these items shall be under full control of the *AMO*. The availability of equipment and tools means permanent availability except in the case of any tool or equipment that is so rarely needed that its permanent availability is not necessary.

(b) The Authority may exempt an *AMO* from possessing specific tools and equipment for maintenance or repair of an aircraft or aeronautical product specified in the *AMO*'s approval, if these items can be acquired temporarily, by prior arrangement, and be under the full control of the *AMO* when needed perform required maintenance or repairs.

(c) The AMO shall use the equipment, tools, and material that are recommended by the manufacturer of the article or must be at least equivalent to those recommended by the manufacturer and acceptable to the Authority.

(d) The AMO shall control all applicable tools, equipment, and test equipment used for product acceptance and/or for making a finding of airworthiness.

(e) The AMO shall ensure that all applicable tools, equipment, and test equipment used for product acceptance and/or for making a finding of airworthiness are calibrated to ensure correct calibration to a standard traceable to a national standard recognized by the Authority.

(f) The AMO shall keep all records of calibrations and the standards used for calibration.

(g) The IS: 6.3.1.3 contains detailed requirements pertaining to tools, equipment, and test equipment.

6.4 ADMINISTRATION

6.4.1.1.—(a) A management person or group of persons acceptable to the Authority, whose responsibilities include ensuring that the AMO is in compliance with these regulations, shall be nominated.

Personnel
Requirement.

(b) The person or persons nominated as manager shall represent the maintenance management structure of the AMO, and be responsible for all functions specified in Part 6 of these Regulations.

(c) Nominated managers shall be directly responsible to an accountable manager who shall be acceptable to the Authority.

(d) The AMO shall employ sufficient personnel to plan, perform, supervise and inspect and release the work in accordance with the approval.

(e) The competence of personnel involved in maintenance shall be established in accordance with a procedure and to a standard acceptable to the Authority.

(f) Each supervisor in the AMO shall hold an AME licence issued in accordance with Part 2 of these Regulations, Personnel Licensing.

(g) The person signing maintenance release or an approval for return to service shall be qualified in accordance with Part 2 of these Regulations, as appropriate to the work performed and shall be acceptable to the Authority.

(h) An AMO that uses Aircraft Repair Specialists (ARS) shall ensure that each ARS is employed by the AMO and is licenced in accordance with Part 2 of these Regulations.

(i) The maintenance personnel and the certifying staff shall meet the qualification requirements and receive initial, recurrent, and specialised training to their assigned tasks and responsibilities in accordance with a program acceptable to the Authority. The training program established by the AMO shall include training in knowledge and skills related to human performance, including coordination with other maintenance personnel and flight crew.

(j) See IS: 6.4.1.1 for detailed personnel requirements.

Indoctrination,
Initial,
Recurrent,
Specialised
and
Remedial
Training.

6.4.1.2.—(a) An AMO shall have an employee training program approved by the Authority that consists of indoctrination, initial, recurrent training, specialised and remedial training.

(b) An AMO shall develop and update its training program based on the job tasks associated with its scope of operating authority and capabilities.

(c) The training program shall ensure that each employee assigned to perform maintenance, preventive maintenance, or alterations, and inspection functions is capable of performing the assigned task.

(d) An AMO shall submit revisions of its training program to the Authority for approval.

(e) An AMO shall document, in a form and manner acceptable to the Authority, the individual employee training required under this section. These training records must be retained for a minimum of two years.

(f) An AMO training program shall meet the detailed requirements contained in the IS: 6.4.1.2

Dangerous
goods
Training
Programme.

6.4.1.3.—(a) An AMO shall have a dangerous goods training program for its employees, whether full time, part time, or temporary or contracted, who are engaged in the following activities :

(1) Loading, unloading or handling of dangerous goods ;

(2) Design, manufacture, fabrication, inspection, marking, maintenance, reconditions, repairs or tests of a package, container or packaging component that is represented, marked, certified, or sold as qualified for use in transporting dangerous goods ;

(3) Preparation of hazardous materials for transport ;

(4) Responsibility for the safety of transportation of dangerous goods ;

(5) Operation of a vehicle used to transport dangerous goods, or

(6) Supervision of any of the above listed items.

(b) An AMO employee shall not perform or directly supervise a job function listed in item (a) above unless he or she has received the approved dangerous goods training.

(c) The AMO training shall ensure that its dangerous goods training —

(1) Ensures that each employee performing or directly supervising any of the job functions specified in item (a) above is trained to comply with all applicable procedures ; and

(2) Enables the trained person to recognise items that contain, or may contain, dangerous goods regulated under these regulations.

(d) The dangerous goods training of the AMO shall be approved by the Authority and shall contain the items in IS: 6.4.1.3.

(e) An AMO shall document, in a form and manner acceptable to the Authority, the individual employee training required under this section. These training records shall be retained for a minimum of two years.

6.4.1.4.—(a) No person may assign, nor shall any person perform maintenance functions for aircraft, unless that person has had a minimum rest period of 8 hours prior to the beginning of duty.

(b) No person may schedule a person performing maintenance functions for aircraft for more than 12 consecutive hours of duty.

(c) In situations involving unscheduled aircraft unserviceability, persons performing maintenance functions for aircraft may be continued on duty for—

- (1) Up to 16 consecutive hours ; or
- (2) 20 hours in 24 consecutive hours.

(d) Following unscheduled duty periods, the person performing maintenance functions for aircraft shall have a mandatory rest period of 10 hours.

(e) The AMO shall relieve the person performing maintenance functions from all duties for 24 consecutive hours during any 7 consecutive day's period.

6.4.1.5.—(a) The AMO shall maintain a roster of all management, supervisory, inspection and certifying staff, which includes details of the scope of their authorisation.

(b) Certifying staff shall be notified in writing of the scope of their authorisation.

(1) The authorisation document shall be in a style that makes its scope clear to certifying staff and any authorised person that may be required to examine the document. Where codes are used to define scope, an interpretation document shall be readily available.

(2) Certifying staff are not required to carry the authorisation document at all times but shall produce it within a reasonable time of a request from an authorised person.

(c) See IS: 6.4.1.5 for detailed requirements pertaining to records of management, supervisory, inspection and certifying staff.

6.4.1.6 SAFETY MANAGEMENT SYSTEM (SMS)

(a) The AMO shall establish a Safety Management System in order to achieve an acceptable level of safety in the maintenance of aircraft that as a minimum:

- (1) identifies safety hazards ;
- (2) ensures that remedial action necessary to maintain an acceptable level of safety is implemented;
- (3) provides for continuous monitoring and regular assessment of the safety level achieved; and

Rest and
Duty
Limitations
for Persons
Performing
Maintenance
Functions
in an AMO

Records of
Management,
Supervisory,
Inspection
and
Certifying
Staff

(4) aims to make continuous improvement to the overall level of safety.

(b) The Safety Management System shall clearly define lines of safety accountability throughout a maintenance organization, including a direct accountability for safety to the upper levels of senior management.

(c) Appoints a Manager accountable for promoting safety policy.

6.5 AMO OPERATING RULES

Maintenance
Procedures
Manual.

6.5.1.1.—(a) An AMO Maintenance Procedures Manual and any subsequent amendments thereto shall be approved by the Authority prior to use.

(b) The AMO Maintenance Procedures Manual shall specify the scope of work required of the AMO in order to satisfy the relevant requirements needed for an approval of an aircraft or aeronautical product for return to service.

(c) The Maintenance Procedures Manual and any other manual it identifies must :

(1) Include instructions and information necessary to allow the personnel concerned to perform their duties and responsibilities with a high degree of safety ;

(2) Be in a form that is easy to revise and contain a system which allows personnel to determine current revision status;

(3) Have the date of the last revision printed on each page containing the revision ;

(4) Not be contrary to any applicable Nigerian regulation or the AMO's specific operating provisions; and

(5) Include a reference to appropriate civil aviation regulations.

(d) The AMO shall provide an approved Maintenance Procedures Manual for use by the organisation, containing the following information—

(1) A statement signed by the accountable manager confirming that the maintenance organisation. Maintenance Procedures Manual and any associated manuals define the AMO's compliance with this regulation and shall be complied with at all times.

(2) A procedure to establish and maintain a current list of the titles and names of the management personnel accepted by the Authority. The list of personnel may be separate from the Maintenance Procedures Manual but must be kept current and available for review by the Authority when requested.

(3) A list which describes the duties and responsibility of the management personnel and the matters on which they may deal directly with the Authority on behalf of the AMO.

(4) An organisation chart showing associated chains of responsibility of the management personnel.

- (5) A procedure to establish and maintain a current roster of certifying personnel.
 - (6) A description of the procedures used to establish the competence of maintenance personnel.
 - (7) A general description of manpower resources.
 - (8) A description of the method used for the completion and retention of the maintenance records.
 - (9) A description of the procedure for preparing the maintenance release and the circumstances under which the release is to be signed.
 - (10) A description, when applicable, of additional procedures for complying with an AOC holder's maintenance procedures and requirements.
 - (11) A description of the procedures for complying with the service information reporting requirement contained in section 6.5.1.10.
 - (12) A description of the procedure for receiving, amending and distributing within the maintenance organisation all necessary airworthiness data from the type certificate holder or the type design organisation.
 - (13) A general description of the facilities located at each address specified in the AMO's approval certificate.
 - (14) A general description of the AMO's scope of work relevant to the extent of approval.
 - (15) The notification procedure for AMO to use when requesting the approval of changes to the organisation of the AMO from the Authority.
 - (16) The amendment procedure for the AMO Maintenance Procedures Manual, including the submission to the Authority.
 - (17) The AMO's procedures, acceptable to the Authority, to ensure good maintenance practices and compliance with all relevant requirements in this subsection.
 - (18) The AMO's procedures to establish and maintain an independent quality system to monitor compliance with the adequacy of the procedures to ensure good quality maintenance practices and airworthy aircraft and aeronautical products. Compliance monitoring must include a feedback system to the person or group of persons specified in 6.4.1.1, and ultimately to the accountable manager to ensure, as necessary, corrective action. Such a system shall be acceptable to the Authority.
 - (19) A list of operators, if appropriate, to which the AMO provides an aircraft maintenance service.
 - (20) A list of organisations performing maintenance on behalf of the AMO.
 - (21) A list of the AMO's line maintenance locations and procedures, if applicable.
- (e) See IS: 6.5.1.1 for detailed requirements concerning the Maintenance Procedures Manual and a sample Maintenance Procedures Manual format.

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Maintenance Procedures.

6.5.1.2.—(a) The AMO shall establish procedures acceptable to the Authority to insure good maintenance practices and compliance with all relevant requirements in these regulations by providing a system of inspection to ensure that all maintenance is properly performed such that aircraft and aeronautical products may be properly released to service.

(b) The maintenance procedures shall cover all aspects of maintenance activity and describe standards to which the AMO intends to work. The aircraft/aircraft component design AMO standards and aircraft operator standards must be taken into account.

(c) The maintenance procedures shall address the provisions and limitations of Part 6 of these Regulations.

Capability List.

6.5.1.3.—(a) Each approved maintenance organisation must prepare and retain a current capability list approved by the Authority. The approved maintenance organisation may not perform maintenance, preventive maintenance, or alterations on an article until the article has been listed on the capability list in accordance with this Part.

(b) The capability list must identify each article by make and model, part number, or other nomenclature designated by the article's manufacturer.

(c) An article may be listed on the capability list only if the article is within the scope of the ratings and classes of the approved maintenance organisation's certificate, and only after the approved maintenance organisation has performed a self-evaluation in accordance with 6.5.1.1(d)(18). The approved maintenance organisation must perform the self-evaluation described in this paragraph to determine that the maintenance organisation has all of the facilities, equipment, material, technical data, processes, housing, and trained personnel in place to perform the work on the article as required by this part. If the approved maintenance organisation makes that determination, it may list the article on the capability list.

(d) The document of the evaluation described in paragraph (c) of this section must be signed by the accountable manager and must be retained on file by the approved maintenance organisation.

(e) Upon listing an additional article on its capability list, the maintenance organisation must send a copy of the list to the Authority having jurisdiction over the approved maintenance organisation.

(f) The capability list(s) must be available in the premises for inspection by the public and the Authority.

(g) The self-evaluations must be available in the premises for inspection by the Authority.

(h) The AMO shall retain the capability list(s) and self-evaluation(s) for two years from the date accepted by the accountable manager.

6.5.1.4.—(a) An AMO may contract a maintenance function pertaining to an article to an outside source provided—

Contract
Maintenance.

(1) The Authority approved the maintenance function to be contracted to the outside source ; and

(2) The AMO maintains and makes available to the Authority in a format acceptable to the Authority, the following information—

(i) The maintenance functions contracted to each outside facility, and

(ii) The name of each outside facility to whom the AMO contracts maintenance functions and the type of certificate and ratings, if any, held by each facility.

(b) An AMO may contract a maintenance function pertaining to an article to a unlicensed person provided—

(1) The unlicensed person follows a quality control system equivalent to the system followed by the AMO ;

(i) The AMO remains directly in charge of the work performed by the unlicensed person ; and

(ii) The AMO verifies, by test and/or inspection, that the work has been performed satisfactorily by the unlicensed person and that the article is airworthy before approving it for return to service.

(c) An AMO may not provide only approval for return to service of a complete type-certificated product following contract maintenance, preventive maintenance, or alterations.

6.5.1.5.—(a) The AMO shall carry out the following tasks as permitted by and in accordance with the AMO Maintenance Procedures Manual—

Privileges
of the
Approved
Maintenance
Organisation.

(1) Maintain any aircraft or aeronautical product for which it is rated at the location identified in the approval certificate ;

(2) Maintain any aircraft for which it is rated at any location subject to the need for such maintenance arising from unserviceability of the aircraft ;

(3) Perform the activities in support of a specific AOC holder where that AOC has requested the services of the AMO at locations other than the location identified on the AMO certificate and the AMO has been rated to maintain the aircraft of that specific AOC holder at the requested location in the AMO operating provisions approved by the Authority ; and

(4) Issue an approval for return to service or a maintenance release in respect of subparagraphs (a) (1), (2), and (3) of this subsection upon completion of maintenance in accordance with limitations applicable to the AMO.

(b) An AMO may not contract out the maintenance, preventive maintenance, or alteration of a complete type-certificated product, and it may not provide only approval for return to service of a product following contract maintenance.

(c) The AMO may maintain or alter any article for which it is rated at a place other than the AMO, if—

(1) The function would be performed in the same manner as when performed at the AMO and in accordance with this Subpart;

(2) All necessary personnel, equipment, material, and technical and/or approved standards are available at the place where the work is to be done; and

(3) The Maintenance Procedures Manual of the AMO sets forth approved procedures governing work to be performed at a place other than the AMO.

(a) The AMO shall maintain an aircraft or aeronautical product for which it is approved only when all necessary housing, facilities, equipment, tools, material, approved technical data and certifying staff are available.

limitations on the AMO.

6.5.1.6.—(a) The AMO shall maintain an aircraft or aeronautical product for which it is approved only when all necessary housing, facilities, equipment, tools, material, approved technical data and certifying staff are available.

Certificate of Release to Service of an Aircraft, Part, Component of Assembly.

6.5.1.7.—(a) A certificate of release to service shall be issued by appropriately authorised certifying staff when satisfied that all required maintenance of the aircraft has been properly carried out by the AMO in accordance with the Maintenance Procedures Manual.

(b) A certificate of release is required at the completion of any maintenance on an aircraft part, component or assembly when off the aircraft.

(c) The release to service to be used for release of an aircraft or aeronautical part, component or assembly shall adhere to the following items.

(1) The certificate of release to service shall contain the following statement: Certifies that the work specified was carried out in accordance with current regulations and in respect to that work the aircraft/aircraft component is considered approved for release to service.”

(2) The certificate of release to service shall reference the data specified in the manufacturer’s maintenance instructions or instructions for continued airworthiness.

(3) Where instructions include a requirement to insure that a dimension or test figure is within a specific tolerance as opposed to a general tolerance, the dimension or test figure shall be recorded unless the instruction permits the use of GO/NO gauges. It is not normally sufficient to state that the dimension or the test figure is within tolerance.

(4) The date such maintenance was carried out shall include when the maintenance took place relative to any life or overhaul limitation in terms of date/ flying hours/cycles/landings etc., as appropriate.

(5) When extensive maintenance has been carried out, it is acceptable for the certificate of release to service to summarise the maintenance as long as there is a cross-reference to the work package containing full details of maintenance carried out. Dimensional information shall be retained in the work package record.

(6) The person issuing the release to service shall use a full signature and preferably a certification stamp except in the case where a computer release to service system is used. In this latter case, the Authority will need to be satisfied that only the particular person can electronically issue the release to service.

(d) An aeronautical product which has been maintained off the aircraft requires the issue of a certificate of release to service (NCAA Form One) for such maintenance and another certificate of release to service of the aircraft in regard to maintenance being properly accomplished on the aircraft. The release to service of the aircraft shall be made by the AMO in the aircraft technical log maintenance records section.

(e) When a part of component is released to service, the AMO shall complete NCAA Form One as contained in IS: 6.5.1.7.

6.5.1.8.—(a) The AMO shall record, in a form acceptable to the Authority, all details for maintenance work performed.

Maintenance
Records.

(b) The AMO shall provide a copy of each certificate of release to service to the aircraft operator, together with a copy of any specific airworthiness data used for repairs/alterations performed.

(c) The AMO shall retain a copy of all detailed maintenance records and any associated airworthiness data for two years from the date the aircraft or aeronautical product to which the work relates was released from the AMO.

(d) Each person who maintains, performs preventive maintenance, rebuilds, or alters an aircraft/aeronautical product shall make an entry in the maintenance record of that equipment :

(1) A description and reference to data acceptable to the Authority of work performed.

(2) The date of completion of the work performed.

(3) The name of the person performing the work if other than the person specified in this subsection.

(4) If the work performed on the aircraft/aeronautical product has been performed satisfactorily, the signature, certificate number, and kind of certificate held by the person approving the work.

(5) The authorised signature, the AMO certificate number, and kind of licence held by the person approving or disapproving for return to service the aircraft, airframe, aircraft engine, propeller, appliance, component part, or portions thereof.

(6) The signature constitutes the approval for return to service only for the work performed.

(7) In addition to the entry required by this paragraph, major repairs and major alterations shall be entered on a form, and the form disposed of by the person performing the work, in the manner prescribed by the Authority in Part 5: 5.7.1.1.

(e) No person shall describe in any required maintenance entry or form an aircraft or aeronautical component as being overhauled unless—

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(1) Using methods, techniques, and practices acceptable to the Authority, it has been disassembled, cleaned, inspected as permitted, repaired as necessary, and reassembled ; and

(2) It has been tested in accordance with approved standards and technical data, or in accordance with current standards and technical data acceptable to the Authority, which have been developed and documented by the holder of the type certificate, supplemental type certificate, or a material, part, process, or appliance approval under a TSO.

(f) No person may describe in any required maintenance entry or form, an aircraft or other aeronautical product as being rebuilt unless it has been—

(1) Disassembled, cleaned, inspected as permitted ;

(2) Repaired as necessary ; and

(3) Reassembled and tested to the same tolerances and limits as a new item, using either new parts or used parts that either conforms to new part tolerances and limits, or to approved oversized or undersized dimensions.

(g) No person may approve for return to service any aircraft or aeronautical product that has undergone maintenance, preventive maintenance, rebuilding, or alteration unless—

(1) The appropriate maintenance record entry has been made ; and

(2) The repair or alteration form authorised by or furnished by the Authority has been executed in a manner prescribed by the Authority ;

(h) If a repair or alteration results in any change in the aircraft operating limitations or flight data contained in the approved aircraft flight manual, those operating limitations or flight data shall be appropriately revised and set forth as prescribed by the Authority.

(i) Maintenance record entries for inspections. The person approving or disapproving for return to service an aircraft/aeronautical product, after any inspection performed in accordance with this regulation, shall make an entry in the maintenance record of that equipment containing the following information—

(1) The type of inspection and a brief description of the extent of the inspection ;

(2) The date of the inspection and aircraft total time in service ;

(3) The authorised signature, the AMO certificate number, and kind of licence held by the person approving or disapproving for return to service the aircraft, airframe, aircraft engine, propeller, appliance, component part, or portions thereof ;

(4) If the aircraft is found to be airworthy and approved for return to service, the following or a similarly worded statement—*I certify that this aircraft has been inspected in accordance with (insert type) inspection and was determined to be in airworthy condition ;*

(5) If the aircraft is not approved for return to service because of needed maintenance, noncompliance with the applicable specifications, airworthiness directives, or other approved data, the following or a similarly worded statement—*I certify that this aircraft has been inspected in accordance with (insert type) inspection and a list of discrepancies and unairworthy items dated (date) has been provided for the aircraft owner or operator*; and

(6) If an inspection is conducted under an inspection program provided for in this regulation, the entry shall identify the inspection program accomplished, and contains a statement that the inspection was performed in accordance with the inspections and procedures for that particular program.

(j) Listing of discrepancies. If the person performing any inspection required by this regulation finds that the aircraft is not airworthy or does not meet the applicable type certificate data sheet, airworthiness directives, or other approved data upon which its airworthiness depends, that person shall give the owner or lessee a signed and dated list of those discrepancies.

6.5.1.9.—(a) The AMO shall be in receipt of all airworthiness data appropriate to support the work performed from the Authority, the aircraft/aeronautical product design organisation, and any other approved design organisation in the State of Manufacture or State of Design, as appropriate.

Airworthiness Data.

(b) Where the AMO modifies airworthiness data specified in paragraph (a) to a format or presentation more useful for its maintenance activities, the AMO shall submit to the Authority an amendment to the Maintenance Procedures Manual for any such proposed alterations for acceptance.

(c) All airworthiness data used by the AMO shall be kept current and made available to all personnel who require access to that data to perform their duties.

(d) The IS: 6.5.1.9 contains detailed requirements concerning airworthiness data.

6.5.1.10.—(a) The AMO shall report to the Authority and the aircraft design organisation of the State of Design any identified condition that could present a serious hazard to the aircraft.

Reporting of Unairworthy Conditions.

(b) Reports shall be made on a form and in a manner prescribed by the Authority and contain all pertinent information about the condition known to the AMO. The report shall contain at least the following items—

- (1) Aircraft registration number.
- (2) Type, make and model of the article.
- (3) Date of the discovery of the failure, malfunction, or defect.
- (4) Time since last overhaul, if applicable.
- (5) Apparent cause of the failure, malfunction, or defect.

(6) Other pertinent information that is necessary for more complete identification, determination of seriousness, or corrective action.

(c) Where the AMO is contracted by an AOC holder to carry out maintenance, that AMO shall report to the AOC holder any condition affecting the aircraft or aeronautical product.

(d) Reports shall be made as soon as practicable, but in any case within three days of the AMO identifying the condition to which the report relates.

Authority to
Conduct
Inspections.

6.5.1.11.—(a) Each certificated approved maintenance organisation must allow the Authority to inspect that approved maintenance organisation and any of its contract maintenance facilities at any time to determine compliance with this part. Arrangements for maintenance, preventive maintenance, or alterations by a contractor must include provisions for inspections of the contractor by the Authority.

AMO
Performance
Standards.

6.5.1.12.—(a) Each certificated approved maintenance organisation that performs any maintenance, preventive maintenance, alterations for an air operator certificated under Part 9 of these Regulations having an approved maintenance program under Part 9.4.1.12 and approved continuous maintenance program under Part 9.4.1.13 shall perform that work in accordance with the AOC holder's manuals.

(b) Except as provided in paragraph (a), each certificated approved maintenance organisation shall perform its maintenance and alteration operations in accordance with the applicable standards in Part 5 of these Regulations, Airworthiness. It shall maintain, in current condition, all manufacturer's service manuals, instructions, and service bulletins that relate to the articles that it maintains or alters.

(c) In addition, each certificated approved maintenance organisation with an avionics rating shall comply with those sections in Part 5 of these Regulations that apply to electronic systems, and shall use materials that conform to approved specifications for equipment appropriate to its rating. It shall use test apparatus, shop equipment, performance standards, test methods, alterations, and calibrations that conform to the manufacturer's specifications or instructions, approved specification, and if not otherwise specified, to accepted good practices of the aircraft avionics industry

IS : 6.2.1.3.—(a) The following is an AMO Certificate.

[NIGERIAN CIVIL AVIATION AUTHORITY]

APPROVED MAINTENANCE ORGANISATION CERTIFICATE

Number

This certificate is issued to

Whose business address is

Upon finding that its organisation complies in all respects with the requirements of the Civil Aviation Regulations Part 6, relating to the establishment of an Approved Maintenance Organisation and is empowered to operate an Approved Maintenance Organisation.

With the following ratings:

This certificate shall continue in effect until [DATE] unless cancelled, suspended, or revoked

Date Issued

Designation

For : Nigerian Civil Aviation Authority

This certificate is not transferable and must be displayed to the public in the principal business office of the Organisation

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Application for an AMO Certificate.

IS : 6.2.1.5—(a) The following application may be used for an AMO certificate.

NIGERIAN CIVIL AVIATION AUTHORITY		Application for Approved Maintenance Organisation Certificate and/or Ratings		
1. Approved Maintenance Organisation Name, Number, Location and Address		2. Reasons for Submission		
(a). Official Name of Approved Maintenance Organisation :	Number :	<input type="checkbox"/> Original Application for Certificate and Rating <input type="checkbox"/> Change in Rating <input type="checkbox"/> Change in Location or Housing and Facilities <input type="checkbox"/> Change in Ownership <input type="checkbox"/> Other (Specify)		
(b). Location where business is conducted :				
(c). Official Mailing Address of Approved Maintenance Organisation (Number , Street, City, Nigeria & Postal Code)				
(d). Doing Business As:				
3. Ratings Applied for:				
<input type="checkbox"/> Airframe <input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> Class 4	<input type="checkbox"/> Powerplant <input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3	<input type="checkbox"/> Propeller <input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2	<input type="checkbox"/> Avionics/ Radio <input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3	<input type="checkbox"/> Instrument <input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> Class 4
<input type="checkbox"/> Accessories <input type="checkbox"/> Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3	<input type="checkbox"/> Limited <input type="checkbox"/> Airframe <input type="checkbox"/> Accessories <input type="checkbox"/> Rotor Blades <input type="checkbox"/> Powerplant <input type="checkbox"/> Landing Gear <input type="checkbox"/> Fabric <input type="checkbox"/> Propeller <input type="checkbox"/> Floats <input type="checkbox"/> Emergency Equip. <input type="checkbox"/> Instruments <input type="checkbox"/> Avionics/radio <input type="checkbox"/> Non-Destructive Test <input type="checkbox"/> Other		<input type="checkbox"/> Specialised Service (List Process Specification(s))	
4. List of Maintenance Functions contracted to an outside Maintenance Organisation :				
5. Applicants Certification				
Name of Owner (Include name(s) of individual Owner, all partners, or corporation name given the Nigeria, province, or country and date of incorporation)				
I hereby certify that I have been authorised by the approved maintenance organisation identified in Item 1 above to make this application and that statements attached hereto are true and correct to the best of my knowledge.				
Date:	Authorised Signature :	Print Name of Authorised Signature :	Title:	
AMO Form AC-AWS006B			Page 1 of 2	

<i>For NCAA Use Only</i>	<i>Record of Action Approved Maintenance Organisation Inspection</i>	<i>For NCAA Use Only</i>
6. Remarks (Identify by item number. Include deficiencies found and ratings denied)		
7. Findings - Recommendations		8. Date of Inspection
<input type="checkbox"/> A. AMO was found to comply with requirements of Part 6. <input type="checkbox"/> B. AMO was found to comply with requirements of Part 6, except for deficiencies listed in Item 6. <input type="checkbox"/> C. Recommend Certificate with rating applied for on application be issued. <input type="checkbox"/> D. Recommend Certificate with rating applied for on application (EXCEPT those listed in Item 6) be issued.		
9.	<i>NCAA Office</i>	<i>Signature(s) of Inspector(s)</i>
		<i>Printed Names of Inspectors</i>
10. Supervising or Assigned Inspector		
ACTION TAKEN <input type="checkbox"/> APPROVED As shown on certificate issued on date shown <input type="checkbox"/> DISAPPROVED	CERTIFICATE ISSUED Number <hr/> Date	Inspector's Signature Inspector's Printed Name Title

Quality System.

IS : 6.2.1.12.—(a) In order to show compliance with 9.2.2.3, an AMO shall establish its quality system in accordance with the instruction and information contained in the following paragraphs.

1.0. GENERAL

1.2 QUALITY POLICY.

1.1.1. An AMO shall establish a formal, written quality policy statement that is a commitment by the Accountable Manager as to what the quality system is intended to achieve. The quality policy shall reflect the achievement and continued compliance with the Regulations together with any additional standards specified by the AMO.

1.1.2. The Accountable Manager is an essential part of the AMO management organisation. The term “Accountable Manager” is intended to mean the Chief Executive/President/Managing Director/ General Manager, etc. of the AMO, who by virtue of his or her position has overall responsibility (including financial) for managing the organisation.

1.1.3. The Accountable Manager shall have overall responsibility for the AMO quality system, including the frequency, format and structure of the internal management evaluation activities as prescribed in paragraph 3.9 below.

1.2 PURPOSE OF THE QUALITY SYSTEM.

1.2.1. The quality system shall enable the AMO to monitor compliance with these Regulations, the AMO’s manual system, and any other standards specified by the AMO, or the Authority, to ensure safe operations and airworthy aircraft. Quality Manager.

1.3 QUALITY MANAGER

1.3.1 The function of the Quality Manager is to monitor compliance with, and the adequacy of, procedures required to ensure safe operational practices and airworthy aircraft as required by these Regulations may be carried out by more than one person by means of different, but complementary, quality assurance programs.

1.3.2 The primary role of the Quality Manager is to verify, by monitoring activity in the field of, maintenance, that the standards required by the Authority, and any additional requirements defined by the AMO, are being carried out under the supervision of the relevant required management personnel.

1.3.3 The Quality Manager shall be responsible for ensuring that the quality assurance programme is properly established, implemented and maintained.

1.3.4 The Quality Manager shall :

- (a) Report to the Accountable Manager ;
- (b) Not be one of the required management personnel ; and
- (c) Have access to all parts of the AMO’s, and as necessary, any sub-contractor’s organisation.

1.3.5 In the case of small AMO's, the posts of the Accountable Manager and Quality Manager may be combined, subject to the Authority's acceptance of the action.

2.0 QUALITY SYSTEM.

2.1 INTRODUCTION.

2.1.1 The AMO's quality system shall ensure compliance with and adequacy of operational and maintenance activities requirements, standards, and procedures.

2.1.2 The AMO shall specify the basic structure of the quality system applicable to the operation.

2.1.3 The quality system shall be structured according to the size and complexity of the organisation to be monitored.

2.2 SCOPE.

2.1.4 As a minimum, the quality system shall address the following :

- (a) The provisions of these Regulations ;
- (b) The AMO's additional standards and operating practices ;
- (c) The AMO's quality policy ;
- (d) The AMO's organisational structure ;
- (e) Responsibility for the development, establishment and management of the quality system ;
- (f) Documentation, including manuals, reports and records ;
- (g) Quality procedures ;
- (h) Quality assurance program ;
- (i) The required financial, material and human resources ;
- (j) Training requirements.

2.2.2 The quality system shall include a feedback system to the accountable manager to ensure that corrective actions are both identified and promptly addressed. The feedback system shall 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 an appropriate timescale.

2.3 RELEVANT DOCUMENTATION.

2.3.1 Relevant documentation includes the relevant part of the operator's manual system.

(2) In addition, relevant document shall include the following :

- (a) Quality policy ;
- (b) Terminology ;

- (c) Specified maintenance standards ;
- (d) A description of the organisation ;
- (e) The allocation of duties and responsibilities ;
- (f) Operational procedures to ensure regulatory compliance ;
- (g) Accident prevention and flight safety programme ;
- (h) The quality assurance programme, reflecting ;
- (1) Schedule of the monitoring process ;
- (2) Audit procedures ;
- (3) Reporting procedures ;
- (4) Follow-up and corrective action procedures ;
- (5) Recording system ;
- (6) The training syllabus; and
- (7) Document control.

3.0 QUALITY ASSURANCE PROGRAMME.

3.1 INTRODUCTION.

3.1.1 The quality assurance programme shall include all planned and systematic actions necessary to provide confidence that all maintenance is conducted in accordance with all applicable requirements, standards and procedures.

3.1.2 When establishing a quality assurance programme, consideration shall be given to at least the following :

- (a) Quality inspection ;
- (b) Audit ;
- (c) Auditors ;
- (d) Auditor's independence
- (e) Audit scope ;
- (f) Audit scheduling ;
- (g) Monitoring and corrective action ;
- (h) Management evaluation.

3.2 QUALITY INSPECTION.

3.2.1 The primary purpose of a quality inspection is to observe a particular event/action/document, etc. in order to verify compliance with established procedures, requirements and the required standard.

3.2.2 Subject areas for quality inspections are :

- (1) Facilities size and segregation ;
- (2) Office accommodation

- (3) Work environment
- (4) Storage
- (5) Management changes
- (6) Staff numbers and man-hour plan
- (7) Competence process
- (8) Qualifying certifying staff;
- (9) Records of certifying staff ;
- (10) Issue of authorisations
- (11) Adequate equipment ;
- (12) Equipment control and calibration ;
- (13) Approved data held ;
- (14) Modified maintenance data ;
- (15) Data availability ;
- (16) Data up to date ;
- (17) Aircraft release ;
- (18) Release document contents ;
- (19) Release control
- (20) Details on work documents ;
- (21) Operator's copy of release ;
- (22) Record retention ;
- (23) Reporting unairworthy findings ;
- (24) Clear work orders ;
- (25) Procedures per Maintenance Procedures Manual ;
- (26) Suppliers and subcontractors ;
- (27) Acceptance of parts ;
- (28) Parts control in stores ;
- (29) Use of tools ;
- (30) Cleanliness standards ;
- (31) Control of repairs ;
- (32) Aircraft Maintenance Programme completion ;
- (33) Airworthiness directive control ;

- (34) Control of alterations ;
- (35) Control of working documents ;
- (36) Base maintenance defects ;
- (37) Defective parts to stores ;
- (38) Parts to outside contractors ;
- (39) Computer maintenance systems ;
- (40) Engine running ;
- (41) Aircraft procedures ;
- (42) Line maintenance control parts ;
- (43) Line servicing control ;
- (44) Line defect control ;
- (45) Aircraft Technical Log – Maintenance Records section completion ;
- (46) Pool and loan parts ;
- (47) Return defective parts to base ;
- (48) Product maintenance exemption control ;
- (49) Procedures deviation control ;
- (50) Special services control (NDI) ;
- (51) Contractors working teams ;
- (52) Product audit ;
- (53) Privileges and locations control ;
- (54) Limitation control ;
- (55) Control of changes.

3.2.3 Acceptable methods for quality inspections for maintenance are :

- (a) Product sampling - the part inspection of a representative sample of the aircraft fleet ;
- (b) Defect sampling - the monitoring of defect rectification performance ;
- (c) Concession sampling - the monitoring of any concession to not carry out maintenance on time ;

3.3 AUDIT.

3.3.1 An audit 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 must be conducted.

3.3.2 Audits shall include at least the following quality procedures and processes :

- (a) A statement explaining the scope of the audit ;
- (b) Planning and preparation ;
- (c) Gathering and recording evidence ; and
- (d) Analysis of the evidence.

3.3.3 Techniques that contribute to an effective audit are :

- (a) Interviews or discussions with personnel ;
- (b) A review of published documents ;
- (c) The examination of an adequate sample of records ;
- (d) The witnessing of the activities that make up the operation ; and
- (e) The preservation of documents and the recording of observations.

3.4. AUDITORS.

3.4.1 An AMO shall decide, depending upon the complexity of the organisation, whether to make use of a dedicated audit team or a single auditor. In any event, the auditor or audit team shall have relevant maintenance experience.

3.4.2 The responsibilities of the auditors shall be clearly defined in the relevant documentation.

3.5 AUDITOR'S INDEPENDENCE.

3.5.1 Auditors shall not have any day-to-day involvement in the area of the maintenance activity that is to be audited. An AMO may, in addition to using the services of full-time dedicated personnel belonging to a separate quality department, undertake the monitoring of specific areas or activities by the use of part-time auditors. An AMO whose structure and size does not justify the establishment of full-time auditors, may undertake the audit function by the use of part-time personnel from within its own organisation or from an external source under the terms of an agreement acceptable to the Authority. In all cases the AMO shall develop suitable procedures to ensure that persons directly responsible for the activities to be audited are not selected as part of the auditing team. Where external auditors are used, it is essential that any external specialist is familiar with the type of operation and/or maintenance conducted by the operator.

3.5.2 The AMO's quality assurance programme shall identify the persons within the company who have the experience, responsibility and authority to:

- (a) Perform quality inspections and audits as part of ongoing quality assurance ;
- (b) Identify and record any concerns or findings, and the evidence necessary to substantiate such concerns or findings ;

(c) Initiate or recommend solutions to concerns or findings through designated reporting channels ;

(d) Verify the implementation of solutions within specific timescales ;

(e) Report directly to the quality manager.

3.6 AUDIT SCOPE.

3.6.1 AMO's are required to monitor compliance with the operational and maintenance procedures they have designed to ensure safe operations, airworthy aircraft and the serviceability of both operational and safety equipment. In doing so they shall as a minimum, and where appropriate, monitor :

(a) Organisation ;

(b) Plans and company objectives ;

(c) AMO certification (AMO/Operations specifications)

(d) Supervision ;

(e) Manuals, logs, and records ;

(f) Duty time limitations, rest requirements, and scheduling ;

(g) Maintenance programmes and continued airworthiness ;

(h) Airworthiness directives management;

(i) Maintenance accomplishment ;

(j) Defect deferral ;

(k) Dangerous goods ;

(l) Security ;

(m) Training.

3.7 AUDIT SCHEDULING.

3.7.1 A quality assurance program shall include a defined audit schedule and a periodic review cycle area by area. The schedule shall be flexible, and allow unscheduled audits when trends are identified. Follow-up audits shall be scheduled when necessary to verify that corrective action was carried out and that it was effective.

3.7.2 An AMO shall establish a schedule of audits to be completed during a specified calendar period. All aspects of the operation shall be reviewed within every 12 month period in accordance with the programme unless an extension to the audit period is accepted as explained below. An AMO may increase the frequency of audits at its discretion but shall not decrease the frequency without the approval of the Authority. Audit frequency shall not be decreased beyond a 24 month period interval.

3.7.3 When an AMO defines the audit schedule, significant changes to the management, organisation, operation, or technologies shall be considered as well as changes to the regulatory requirements.

3.8 MONITORING AND CORRECTIVE ACTION.

3.8.1 The aim of monitoring within the quality system is primarily to investigate and judge its effectiveness and thereby to ensure that defined policy and maintenance standards are continuously complied with. Monitoring activity is based upon quality inspections, audits, corrective action and follow-up. The AMO shall establish and publish a quality procedure to monitor regulatory compliance on a continuing basis. This monitoring activity shall be aimed at eliminating the causes of unsatisfactory performance.

3.8.2. Any non-compliance identified as a result of monitoring shall be communicated to the manager responsible for taking corrective action or, if appropriate, the accountable manager. Such non-compliance shall be recorded, for the purpose of further investigation, in order to determine the cause and to enable the recommendation of appropriate corrective action.

3.8.3 The quality assurance programme shall include procedures to ensure that corrective actions are taken in response to findings. These quality procedures shall monitor such actions to verify their effectiveness and that they have been completed. Organisational responsibility and accountability for the implementation of corrective action resides with the department cited in the report identifying the finding. The accountable manager shall have the ultimate responsibility for resourcing the corrective active action and ensuring, through the quality manager, that the corrective action has re-established compliance with the standard required by the Authority, and any additional requirements defined by the operator.

3.8.4 Corrective action. Subsequent to the quality inspection/audit, the AMO shall establish :

- (a) The seriousness of any findings and any need for immediate corrective action ;
- (b) The origin of the finding ;
- (c) What corrective actions are required to ensure that the non-compliance does not recur ;
- (d) A schedule for corrective action ;
- (e) The identification of individuals or departments responsible for implementing corrective action ;
- (f) Allocation of resources by the accountable manager, where appropriate.

3.8.5 The quality manager shall :

- (a) Verify that corrective action is taken by the manager responsible in response to any finding of noncompliance ;
- (b) Verify the corrective action includes the elements outlined in paragraph 3.8.4 above ;
- (c) Monitor the implementation and completion of corrective action ;

(d) Provide management with an independent assessment of corrective action ; implementation and completion ; and

(e) Evaluate the effectiveness of corrective action through follow-up process.

3.9 MANAGEMENT EVALUATION.

3.9.1 A management evaluation is a comprehensive, systematic, documented review by the management of the quality system, policies and procedures, and shall consider :

(a) The results of quality inspections, audits and any other indicators ; and

(b) The overall effectiveness of the management organisation in achieving stated objectives.

3.9.2 A management shall identify and correct trends, and prevent, where possible, future non-conformities. Conclusions and recommendations made as a result of an evaluation shall be submitted in writing to the responsible manager for action. The responsible manager shall be an individual who has the authority to resolve issues and take action.

3.9.3 The accountable manager shall decide upon the frequency, format and structure of internal management evaluation activities.

3.10 RECORDING

3.10.1 Accurate, complete and readily accessible records documenting the results of the quality assurance programme shall be maintained by the AMO. Records are essential data to enable an operator to analyse and determine the root causes of non-conformity, so that areas of non-compliance can be identified and addressed.

3.10.2 The following records shall be retained for a period of 5 years :

(a) Audit schedules ;

(b) Quality inspection and audit reports ;

(c) Responses to findings ;

(d) Corrective action reports ;

(e) Follow-up and closure reports ; and

(f) Management evaluation reports.

4.0 QUALITY ASSURANCE RESPONSIBILITY FOR SUB-CONTRACTORS.

4.1 SUB-CONTRACTORS.

4.1.1 AMO's may decide to sub-contract out certain activities to external agencies for the provision of services related to areas such as :

(a) Maintenance ;

(b) Training ; and

(c) Manual preparation.

4.1.2 The ultimate responsibility for the product or service provided by the sub-contractor always remains with the AMO. A written agreement shall exist between the AMO 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 shall be included in the AMO's quality assurance programme.

4.1.3 The AMO shall ensure that the sub-contractor has the necessary authorisation/approval when required and commands the resources and competence to undertake the task.

5.0. QUALITY SYSTEM TRAINING.

5.1 GENERAL.

5.1.1 An AMO shall establish effective, well planned and resourced quality related briefing for all personnel.

5.1.2 Those responsible for managing the quality system shall receive training covering :

- (a) An introduction to the concept of the quality system ;
- (b) Quality management ;
- (c) The concept of quality assurance ;
- (d) Quality manuals ;
- (e) Audit techniques ;
- (f) Reporting and recording ; and
- (g) The way in which the quality system will function in the company.

5.1.3 Time shall be provided to train every individual involved in quality management and for briefing the remainder of the employees. The allocation of time and resources shall be governed by the size and complexity of the AMO.

5.2 SOURCES OF TRAINING.

5.2.1 Quality management courses are available from the various National or International Standards Institutions, and an AMO shall consider whether to offer such courses to those likely to be involved in the management of quality systems. AMO's with sufficient appropriately qualified staff shall consider whether to carry out in-house training.

6.0 ORGANISATIONS WITH 20 OR LESS FULL-TIME EMPLOYEES.

6.1 INTRODUCTION.

6.1.1 The requirement to establish and document a quality system, and to employ a quality manager applies to all AMO's. References to large and small operators elsewhere in these Regulations are governed by aircraft capacity (i.e. more or less than 20 seats) and by mass (i.e. greater or less than 10 tonnes maximum take-off mass).

Such terminology is not relevant when considering the scale of an operation and the quality system required. In the context of quality systems therefore, operators shall be categorised according to the number of full time staff employees.

6.2 SCALE OF OPERATION.

6.2.1 An AMO employing 12 or less full-time technical staff is considered to be “small” as far as quality systems are concerned. Full-time in this context means employed for not less than 35 hours per week excluding vacation periods.

6.2.2 A complex quality system could be inappropriate for a small AMO because the clerical effort required to develop manuals and quality procedures for a complex system may stretch its resources. Such an AMO may tailor its quality system to suit the size and complexity of its operation and allocate its resources more efficiently, subject to the acceptance by the Authority.

6.3 QUALITY SYSTEM FOR SMALL AMO’S.

6.3.1 For small and very small AMO’s it may be appropriate to develop a quality assurance programme that employs a checklist. The checklist shall have a supporting schedule that requires completion of all checklist items within a specified timescale, together with a statement acknowledging completion of a periodic review by top management. An occasional independent overview of the checklist content and achievement of the quality assurance shall be undertaken.

6.3.2 The “small” AMO 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 organisations to perform the quality audits on behalf of the quality manager.

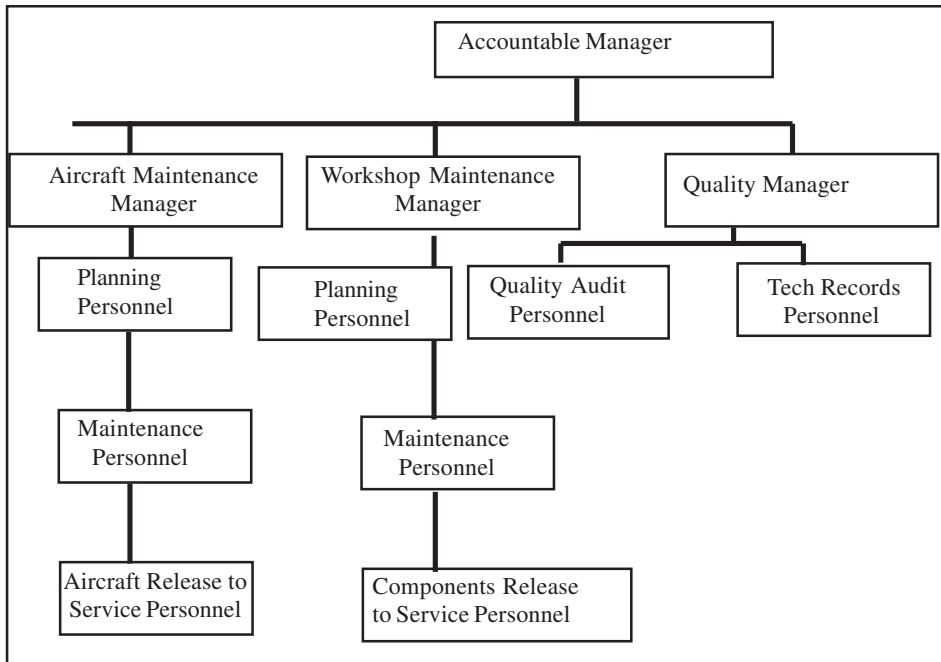
6.3.3 If the independent quality audit function is being conducted by external auditors, the audit schedule shall be shown in the relevant documentation.

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

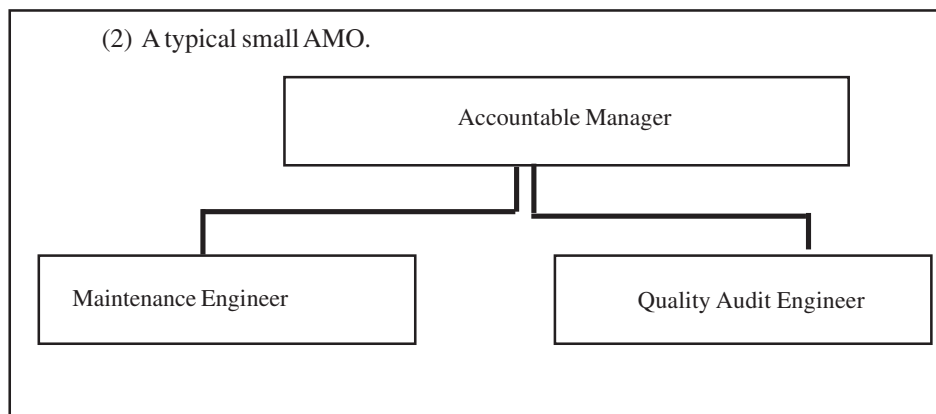
QUALITY SYSTEM – ORGANISATION EXAMPLES

(a) The following diagrams illustrate two typical examples of AMO Quality organisations.

(1) A typical large AMO.



(2) A typical small AMO.



B 632

Housing and
Facility
Requirements

IS: 6.3.1.2.—(a) For ongoing maintenance of aircraft, aircraft hangars shall be available and large enough to accommodate aircraft during maintenance activities.

(b) Where the hangar is not owned by the AMO, the AMO shall :

(1) Establish proof of authorisation to use hangar;

(2) Demonstrate sufficiency of hangar space to carry out planned base maintenance by preparing a projected aircraft hangar visit plan relative to the maintenance program ;

(3) Update the aircraft hangar visit plan on a regular basis ;

(4) Ensure, for aircraft component maintenance, aircraft component workshops are large enough to accommodate the components on planned maintenance ;

(5) Ensure aircraft hangar and aircraft component workshop structures prevent the ingress of rain, hail, ice, snow, wind and dust, etc. ;

(6) Ensure workshop floors are sealed to minimise dust generation ; and

(7) Demonstrate access to hangar accommodation for usage during inclement weather for minor scheduled work and/or lengthy defect rectification.

(c) Aircraft maintenance staff shall be provided with an area where they may study maintenance instructions and complete maintenance records in a proper manner.

(d) Hangars used to house aircraft together with office accommodation shall be such as to insure a clean, effective and conformable working environment.

(1) Temperatures shall be maintained at a comfortable level.

(2) Dust and any other airborne contamination shall be kept to a minimum and not permitted to reach a level in the work task area where visible aircraft/component surface contamination is evident.

(3) Lighting shall be such as to insure each inspection and maintenance task can be carried out.

(4) Noise levels shall not be permitted to rise to the point of distracting personnel from carrying out inspection tasks. Where it is impractical to control the noise source, such personnel shall be provided with the necessary personal equipment to stop excessive noise causing distraction during inspection tasks.

(e) Where a particular maintenance task requires the application of specific environmental conditions different to the foregoing, then such conditions shall be observed. (Specific conditions are identified in the approved maintenance instructions).

(f) Where the working environment for line maintenance deteriorates to an unacceptable level with respect to temperature, moisture, hail, ice, snow, wind,

light, dust/other airborne contamination, the particular maintenance or inspection tasks shall be suspended until satisfactory conditions are reestablished.

(g) For both base and line maintenance where dust or other airborne contamination results in visible surface contamination, all susceptible systems shall be sealed until acceptable conditions are reestablished.

(h) Storage facilities for serviceable aircraft components shall be clean, well ventilated and maintained at an even dry temperature to minimise the effects of condensation.

(i) Manufacturer and standards recommendations shall be followed for specific aircraft components.

(j) Storage racks shall provide sufficient support for large aircraft components such that the component is not distorted.

(k) All aircraft components, wherever practicable, shall remain packaged in protective material to minimise damage and corrosion during storage.

IS: 6.3.1.3—(a) The calibration of all applicable tools, equipment, and test equipment used for product acceptance and/or for making a finding of airworthiness shall be traceable to a national standard recognized by the Authority.

Equipment,
Tools, and
Materials.

(b) Except as provided in paragraph (a), in the case of foreign manufactured tools, equipment, and test equipment, the standard provided by the country of manufacture may be used if approved by the Authority.

(c) Where the manufacturer specifies a particular tool, equipment, or test equipment then that tool, equipment, or test equipment shall be used unless the manufacturer has identified the use of an equivalent.

(d) Except as provided in paragraph (c), tools, equipment, or test equipment other than that recommended by the manufacturer will be acceptable based on at least the following :

(1) The AMO shall have a procedure in the Maintenance Procedures Manual if it intends to use equivalent tools, equipment, or test equipment other than that recommended by the manufacturer.

(2) The AMO shall have a program to include :

(i) A description of the procedures used to establish the competence of personnel that make the determination of equivalency to tools, equipment, or test equipment.

(ii) Conducting and documenting the comparison made between the specification of the tool, equipment or test equipment recommended by the manufacturer and the equivalent tool, equipment, or test equipment proposed.

(iii) Ensuring that the limitations, parameters, and reliability of the proposed tool, equipment, or test equipment are equivalent to the manufacturer's recommended tools, equipment, or test equipment.

(iv) Ensuring that the equivalent tool, equipment, or test equipment is capable of performing the appropriate maintenance function, all normal tests, or calibrations, and checking all parameters of the aircraft or aeronautical product undergoing maintenance or calibration.

(3) The AMO shall have full control of the equivalent tool, equipment, or test equipment (*i.e.* through ownership, lease, *etc.*)

(e) An AMO approved for base maintenance shall have sufficient aircraft access equipment and inspection platforms/docking such that the aircraft may be properly inspected.

(f) The AMO shall have a procedure to inspect/service and, where appropriate, calibrate tools, equipment, and test equipment on a regular basis and indicate to users that an item is within any inspection or service or calibration time limit.

(g) The AMO shall have a procedure if it uses a standard (primary, secondary or transfer standards) for performing calibration, to ensure that standard cannot be used to perform maintenance.

(h) A clear system of labelling all tooling, equipment and test equipment shall be used to give information on when the next inspection or service or calibration is due, and give status information if the item is unserviceable for any other reason where it may not be obvious.

(i) A clear system of labelling all tooling, equipment, and test equipment shall be used to give information on when such tooling, equipment, and test equipment is not used for product acceptance and/or for making a finding of airworthiness.

(j) A register shall be maintained for all calibrated tools, equipment and test equipment together with a record of calibrations and standards used.

(k) Inspection, service, or calibration on a regular basis shall be in accordance with the equipment manufacturers' instructions except where the AMO can show by results that a different time period is appropriate in a particular case and is acceptable to the Authority.

Personnel
Requirements.

IS: 6.4.1.1—(a) The AMO functions shall be subdivided under individual managers or combined in any number of ways, dependent upon the size of the AMO.

(b) The AMO shall have, dependent upon the extent of approval, the following managers, all of whom shall report to the Accountable Manager:

- (1) A base maintenance manager ;
- (2) A line maintenance manager ;
- (3) A workshop manager ; and
- (4) A quality manager.

(c) The Accountable Manager shall be responsible for ensuring that all necessary resources are available to accomplish maintenance required to support the AMO's approval.

(d) The Base Maintenance Manager shall be responsible for :

(1) Ensuring that all maintenance required to be carried out in the hangar, plus any defect rectification carried out during base maintenance, is carried out to specified design and quality standards ; and

(2) Any corrective action resulting from quality compliance monitoring.

(e) The Line Maintenance Manager shall be responsible for:

(1) Ensuring that all maintenance required to be carried out on the line, including line defect rectification, is performed to the required standards; and

(2) Any corrective action resulting from quality compliance monitoring.

(f) The Workshop Manager shall be responsible for :

(1) Ensuring that all work on aircraft components is performed to required standards ; and

(2) Any corrective action resulting from quality compliance monitoring.

(g) The Quality Manager shall be responsible for :

(1) Monitoring the AMO's compliance with Part 6 of these Regulations ; and

(2) Requesting remedial action as necessary by the base maintenance manager/line maintenance manager/workshop manager or the accountable manager, as appropriate.

(h) The AMO may adopt any title for managerial positions, but shall identify to the Authority the titles and persons chosen to carry out these functions.

(i) Where an AMO chooses to appoint managers for all or any combination of the identified functions because of the size of the undertaking, these managers shall report ultimately through either the Base Maintenance Manager or Line Maintenance Manager or Workshop Manager or Quality Manager, as appropriate, to the accountable manager.

(j) The managers specified in this subsection shall be identified and their credentials submitted to the Authority. To be accepted, such managers shall have relevant knowledge and satisfactory experience related to aircraft/aircraft component maintenance as appropriate in accordance with these regulations.

(k) The AMO shall have a production man-hours plan showing that it has sufficient man-hours for the intended work.

(l) If an AMO is approved for base maintenance, the plan shall relate to the aircraft hangar visit plan.

(m) Man-hour plans shall regularly be updated.

(n) Quality monitoring compliance function man-hours shall be sufficient to meet the requirement of 6.2.1.12(b).

(o) Planners, mechanics, supervisors and certifying staff shall be assessed for competence by "on the job" evaluation or by examination relevant to their particular role within the AMO before unsupervised work is permitted.

(p) To assist in the assessment of competence, job descriptions are recommended for each position. The assessment shall establish that :

(1) Planners are able to interpret maintenance requirements into maintenance tasks, and have an appreciation that they have no authority to deviate from the aircraft maintenance program.

(2) Mechanics are able to carry out maintenance tasks to any standard specified in the maintenance instructions and shall notify supervisors of mistakes requiring rectification to reestablish required maintenance standards.

(3) Supervisors are able to ensure that all required maintenance tasks are carried out and where not done or where it is evident that a particular maintenance task cannot be carried out to the maintenance instructions, then such problems shall be reported to and agreed by the quality organisation.

(4) Certifying staff are able to determine when the aircraft or aircraft component is and is not ready for release to service.

(q) In the case of planners, supervisors, and certifying staff, knowledge of AMO procedures relevant to their particular role shall be demonstrated.

(r) Training of certifying staff shall be performed by the AMO or by an institute selected by the AMO. In either case, the AMO shall establish the curriculum and standards for training, as well as prequalification standards for the personnel intended for training. Pre-qualification standards are intended to insure that the trainee has a reasonable chance of successfully completing any course.

(s) Examinations shall be set at the end of each training course.

(t) Initial training shall cover :

(1) Basic engineering theory relevant to the airframe structure and systems fitted to the class of aircraft the AMO intends to maintain ;

(2) Specific information on the actual aircraft type on which the person is intended to become a certifying person including the impact of repairs and system/structural defects ; and

(3) Company procedures relevant to the certifying staff's tasks.

(u) Continuation training shall cover changes in AMO procedures and changes in the standard of aircraft and/or aeronautical products maintained.

(v) The training program shall include details of the number of personnel who shall receive initial training to qualify as certifying staff over specified time periods.

(w) The training program established for maintenance personnel and certifying staff by the AMO shall include training in knowledge and skills related to human performance including co-ordination with other maintenance personnel and flight crew.

Indoctrination,
Initial,
Recurrent,
Specialised
and
Remedial
Training.

IS 6.4.1.2—(a)Each AMO shall provide indoctrination training for employees that includes at least 40 hours of instruction in at least the following subjects :

(1) Nigeria CARs – particularly those associated with AMO maintenance functions and authority as reflected on the certificate and operations specifications.

(2) Company manuals, policies, procedures and practices, including quality control processes, particularly those associated with ensuring compliance with maintenance (including inspection), preventive maintenance, and alteration procedures established to show compliance with Part 6 ;

(3) Dangerous goods requirements of 6.4.1.3, including other local, Nigerian, and national laws requiring training for different categories of employees.

(4) Maintenance human factors – the elements shall focus on aviation maintenance, and safety related issues.

(5) Computer systems and software – as applicable to the repair station's maintenance (including inspection, preventive maintenance and alteration systems and procedures, and

(6) Facility security - which shall include company security objectives, specific security procedures, employee responsibilities, actions to take in the event of a security breach, and the organisational security structure.

(b) Initial training. Each AMO shall provide initial training for employees that includes at least 80 hours of instruction in at least the following subjects consistent with the specific employee position and assigned job activities :

- (1) General review ;
- (2) Specific job or task training ;
- (3) Shop safety ;
- (4) Records and recordkeeping ;
- (5) Materials and parts ;
- (6) Test equipment, including ground support equipment ;
- (7) Tools ;
- (8) Maintenance human factors, and
- (9) Any other items as required by the Authority.

(c) Recurrent training. Each AMO shall provide recurrent training for employees that include at least 8 hours of instruction in the subjects below :

- (1) Refresher of subjects covered in initial training
- (2) New items introduced in the AMO since completion of initial training ;
- (3) Any other items required by the Authority.

(d) Specialised training. Each AMO shall provide specialised training, including initial and recurrent, for employees whose duties require a specific skill. Examples of specialised skills include: flame and/or plasma spray operations, special inspection or test techniques, special machining operations, complex welding operations, aircraft inspection techniques or complex assembly operations.

(e) Remedial training. Each AMO shall provide remedial training to rectify an employee's demonstrated lack of knowledge or skill by providing information as soon as possible. In some instances, remedial training may consist of an appropriately knowledgeable person reviewing procedures with an employee through on-the-job training. Remedial training shall be designed to fix an immediate knowledge or skill deficiency and may focus on one individual. Successful remedial training shall show an individual what occurred, why it occurred, and in a positive manner, how to prevent it from occurring again.

(f) Each AMO, in developing training for employees, shall take into account the various training, experience, and skill levels of its employees as follows :

- (1) Employees that hold an AME licence ;
- (2) Employees with experience performing similar tasks at another AMO ;
- (3) Employees with applicable military aviation maintenance experience ; and
- (4) Employees with no prior skills, experience, or knowledge.

(g) Each AMO shall have procedures to determine the frequency of recurrent training and the need for specialised and remedial training.

(h) Each AMO shall assess the competency of its employees for performing his or her assigned duties after completion of initial, recurrent, specialised and remedial training. This assessment of competency shall be appropriately documented in the employee's training records and shall be done by any of the following methods, depending upon the size of the AMO, its capabilities and experience of its employees :

- (1) Written test.
- (2) Completion of a training course.
- (3) Skill test.
- (4) Group exercise.
- (5) On the job assessment.
- (6) Oral examination in the working environment.

Dangerous
Goods
Training
Programme.

IS: 6.4.1.3—(a) Dangerous goods training, at a minimum, shall include at least 8 hours instruction in at least the following :

(1) General awareness/familiarisation training —designed to provide familiarity with the requirements of this Part and the dangerous goods regulations in Part 9 of these Regulations and to enable the employee to recognise and identify dangerous goods.

(2) Function-specific training —concerning the specific requirements of this Part and the dangerous goods regulations in Part 9 of these Regulations, or exemptions or special permits issued, relating to the specific functions the employee performs.

(3) Safety training concerning—

(i) Emergency response.

(ii) Measures to protect the employee from the hazards associated with the dangerous goods to which they may be exposed in the work place, including specific measures the employer has implemented to protect employees from exposure.

(iii) Methods and procedures for avoiding accidents, such as the proper procedures for handling packages containing dangerous goods.

(4) Security; awareness training —addressing the security risks associated with dangerous goods transportation and methods designed to enhance transportation security. This training must also include a component covering how to recognise and respond to possible security threats.

(5) In-depth security training —must include company security objectives, specific security procedures, employee responsibilities, actions to take in the event of a security breach, and the organisational security structure.

(6) Any other training required by the Authority.

IS: 6.4.1.5—(a) The following minimum information shall be kept on record in respect of each management, supervisory, inspection, and certifying person :

(1) Name ;

(2) Date of birth ;

(3) Basic training ;

(4) Type training ;

(5) Continuation training ;

(6) Experience ;

(7) Qualifications relevant to the approval ;

(8) Scope of the authorisation ;

(9) Date of first issue of the authorisation ;

(10) Expiration date of the authorisation (if appropriate) ; and

(11) Identification number of the authorisation.

(b) Records of these individuals shall be controlled.

(c) The number of persons authorised to access the system shall be limited to minimise the possibility of records being altered in an unauthorised manner and to limit confidential records from become accessible to unauthorised persons.

(d) A certifying person shall be given reasonable access on request to his or her records.

Records of
Management,
Supervisory,
Inspection
and
Certifying
Staff.

(e) The Authority is authorised to and may investigate the records system for initial and continued approval, or when the Authority has cause to doubt the competence of a particular certifying person.

(f) The AMO shall keep the record of these individuals for at least two years after that person has ceased employment with the AMO or after withdrawal of his or her authorisation. Upon request, the certifying staff shall be furnished with a copy of their record on leaving the AMO.

IS: 6.5.1.1.—(a) AMO personnel shall be familiar with those parts of the manuals that are relevant to the maintenance work they perform.

(b) The AMO shall specify in the Maintenance Procedures Manual who shall amend the manual, particularly in the case where the manual consists of several parts.

(c) The Quality Manager shall be responsible for—

(1) Monitoring the amendment of the Maintenance Procedures Manual, including associated procedures manuals.

(2) Submitting proposed amendments to the Authority for approval, unless the Authority has agreed, via a procedure stated in the amendment section of the Maintenance Procedures Manual, that some defined class of amendments may be incorporated without approval by the Authority.

(d) The Maintenance Procedures Manual shall address at least five main areas—

(1) Management.

(2) Maintenance procedures ; including line maintenance procedures.

(3) Quality system procedures.

(4) Documentation.

(5) Examples of standard documents/lists.

(6) Other.

(e) Sample Maintenance Procedures Manual Format. The manual shall conform to the following format:

PART 1 - MANAGEMENT

1.1 Corporate commitment by the accountable manager

1.2 Management personnel

1.3 Duties and responsibilities of the management personnel

1.4 Management Organisation Chart

1.5 List of certifying staff.

Note: A separate document may be referenced

1.6 Manpower resources

- 1.7 General description of the facilities at each address intended to be approved
- 1.8 Organisations intended scope of work
- 1.9 Notification procedure to the Authority regarding changes to the organisation's activities/approval/location/personnel
- 1.10 Manual amendment procedures

PART 2 - MAINTENANCE PROCEDURES

- 2.1 Supplier evaluation procedure
- 2.2 Acceptance/inspection of aircraft components and material from outside contractors
- 2.3 Storage, tagging and release of aircraft components and material to aircraft maintenance
- 2.4 Acceptance of tools and equipment
- 2.5 Calibration of tools and equipment
- 2.6 Use of tooling and equipment by staff (including alternate tools)
- 2.7 Cleanliness standards of maintenance facilities
- 2.8 Maintenance instructions and relationship to aircraft/aircraft component manufacturers' instructions including updating and availability to staff
- 2.9 Repair procedure
- 2.10 Aircraft maintenance program compliance
- 2.11 Airworthiness Directives procedure
- 2.12 Optional alteration procedure
- 2.13 Maintenance documentation in use and completion of same
- 2.14 Technical record control
- 2.15 Rectification of defects arising during base maintenance
- 2.16 Release to service procedure
- 2.17 Records for the AOC holder
- 2.18 Reporting of defects to the Authority/Operator/Manufacturer
- 2.19 Return of defective aircraft components to store
- 2.20 Defective components shipped to outside contractors
- 2.21 Control of computer maintenance record systems
- 2.22 Reference to specific maintenance procedures such as:
 - Engine running procedures
 - Aircraft pressure run procedures
 - Aircraft towing procedures
 - Aircraft taxiing procedures

PART L2 - ADDITIONAL LINE MAINTENANCE PROCEDURES

- L2.1 Line maintenance control of aircraft components, tools, equipment, etc.
- L2.2 Line maintenance procedures related to servicing/fuelling/de-icing, etc.
- L2.3 Line maintenance control of defects and repetitive defects
- L2.4 Line procedure for completion of technical log
- L2.5 Line procedure for pooled parts and loan parts
- L2.6 Line procedure for return of defective parts removed from aircraft

PART 3 - QUALITY SYSTEM PROCEDURES

- 3.1 Quality audit of organisation procedures
- 3.2 Quality audit of aircraft
- 3.3 Quality audit remedial action procedure
- 3.4 Certifying staff qualification and training procedures
- 3.5 Certifying staff records
- 3.6 Quality audit personnel
- 3.7 Qualifying inspectors
- 3.8 Qualifying mechanics
- 3.9 Exemption process control
- 3.10 Concession control for deviation from organisations' procedures
- 3.11 Qualification procedure for specialised activities such as non-destructive testing, welding, etc.
- 3.12 Control of manufacturers' working teams

PART 4 - DOCUMENTATION

- 4.1 Contracted air operators
- 4.2 Air operator procedures and paperwork
- 4.3 Air operator record completion

PART 5 -EXAMPLES OF DOCUMENTS; LISTS

- 5.1 Sample of documents, such as technical record control or rectification of defects.
- 5.2 List of subcontractors
- 5.3 List of line maintenance locations
- 5.4 List of contracted organisations

PART 6 – OTHER SECTIONS AS THE AUTHORITY MAY APPROVE.

IS: 6.5.1.7.—

Certification of Release to Service of an Aircraft, Part, Component Or Assembly.

1. Nigeria		2. NCAA Form One Authorised Release Certificate/ Airworthiness Approval Tag Civil Aviation Administration			3. System Tracking Ref., No.	
4. Organisation Name and Address :				5. Work Order, Contract or Invoice Number		
6. Item	7. Description	8. Part Number	9. Eligibility (Installer must check eligibility with appli- cable tech- nical data)	10. Quantity	11. Serial/Batch Number	12. Status/Work
13. Remarks						
14. Certifies that the items identified above were manufactured in conformity to : <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 13				19. <input type="checkbox"/> Part 5.7.1.2 Release to Service <input type="checkbox"/> other regulation specified in Block 13 Certifies that unless otherwise specified in block 13 (or attached), the work identified in Block 12 and described in block 13, above was accomplished in accordance with CAA airworthiness regulations and in respect to that work, the item(s) is (are) approved for return to service.		
15. Authorised Signature		16. Approval/ Authorisation Number		20. Authorised Signature		21. Approval/ Certificate Number:
17. Name (Typed or Printed):		18. Date (dd/mm/ yy):		22. Name (Typed or Printed) :		23. Date (dd/mm/yy):

LINE-BY-LINE INSTRUCTIONS FOR COMPLETION OF NCAA FORM ONE:

(a) Block 1. Nigeria (Pre-printed).

(b) Block 2. NCAA, Airworthiness Approval Tag, and Civil Aviation Administration (Pre-printed).

(c) Block 3. System Tracking Reference Number.

(1) Fill in the unique number established by the NCAA-approved numbering system.

(2) If the form is computer-generated, it may be produced as programmed by the computer.

NOTE: Shippers must establish a numbering system for traceability in order to fill out block 3 of the form. This system must also provide a means of cross-referencing the number(s) and product(s) being shipped.

(d) Block 4. Organisation.

(1) Fill in the full name and address of the AMO or individual shipping the product(s)/part(s) as applicable :

(i) Company name and address.

(ii) Production Approval Holder (PAH) approval or certificate numbers as issued by the Authority of the State of Manufacturer, when applicable (e.g., production certificate number, approved maintenance organisation certificate numbers, air operator certificate number.

Note: Production certificates are issued to manufacturing companies by an Authority. The Nigeria CARs presume that Nigeria is not yet a State of Manufacture or Design. However, aircraft registered in Nigeria will likely be repaired, altered or rebuilt using parts and components exported from the State of Manufacturer. Companies performing the repair, alteration, rebuild and export will be certificated by the State of Manufacturer as a production approval holder. The PAH is required by the State of Manufacturer to use the airworthiness approval tag and certify their work in blocks 14 – 18 as described in this Part. Consequently States which will not be filling out block 14-18 will need to be familiar with all the uses of this form in order to properly accept parts and components. Production certificates are described in 14 CFR: 21, Subpart G.

(2) When a supplier has direct ship authorisation from a PAH, the following information shall be entered :

(i) PAH name and address.

(ii) PAH approval or certificate number.

(iii) C/o Supplier name and address.

NOTE: If an individual product/part is produced as a spare by a supplier, the supplier must have either direct ship authority or hold a production approval (TSO authorisation) for all products/parts shipped. If the supplier holds its own production

approval, and the products/parts were manufactured and are being shipped under that approval, the information required in paragraph (1) above shall be listed.

(e) Block 5. Work Order, Contract, or Invoice Number.

(1) Fill in the contract, work order, or invoice number related to the shipment list, or maintenance release, and state the number of pages attached to the form, including dates, if applicable. If the shipment list contains the information required in Blocks 6 through 12, the respective blocks may be left blank if an original, or true copy, of the list is attached to the form. In this case, the following statement shall be entered in Block 13: "This is the certification statement for the products/parts listed on the attached document dated _____, containing pages _____ through _____."

(2) In addition, the shipment list must cross-reference the number located in Block 3. The shipment list may contain more than one item; but it is the responsibility of the shipper to determine if the CAA of the importing jurisdiction will accept bulk shipments under a single NCAA Form One. If the CAA does not permit bulk shipments under a single form, Blocks 6 through 12 of each form must be filled in for each product shipped.

(f) Block 6. Item. When NCAA Form One is issued a single item number or multiple item numbers may be used for the same part number. Multiple items shall be numbered in sequence. If a separate listing is used, enter "List Attached."

NOTE: The blank form can be computer-generated. However, the format cannot be changed, nor can any words be added or deleted. Pre-printing of some information is permissible, i.e.; the information in blocks 1, 2, 3, 4, and 19. The size of blocks may be varied slightly, but the form must remain readily recognizable. The form may also be reduced in overall size to facilitate placement of the wording on the back of the form onto the face of the document.

(g) Block 7. Description. Enter the name or description of the product/part as shown on the design data. For products/parts that do not have design data available, the name as referenced in a part catalog, overhaul manual, etc., can be used.

(h) Block 8. Part Number. Enter each part number of the product.

(i) Block 9. Eligibility. State the aircraft, aircraft engine, or propeller make and model on which the parts manufacture approval is eligible for installation. If a part is eligible for installation on more than one model enter the words "to be verified by installer or TBV by installer." Where parts are TSO articles, state "TSO Article N/A" since eligibility for installation for TSO articles is determined at the time of installation.

NOTE: For TSO articles NCAA Form One does not constitute authority to install a product on a particular aircraft, aircraft engine, or propeller. The user or installer is responsible for confirming that the product is eligible for installation by reference

to overhaul manuals, service bulletins, etc., as applicable. While the information in Block 9 is optional, it shall be filled out whenever possible.

(j) Block 10. Quantity. State the quantity of each product/part shipped.

(k) Block 11. Serial/Batch Number. State the serial number or equivalent (identified on the part) on the form for each product/part shipped. If a serial number or equivalent is not required on the part, enter "N/A."

(l) Block 12. Status/work. Enter "Newly Overhauled" for those products that have not been operated or placed in service since overhaul. Enter "PROTOTYPE" for products/parts submitted to support type certification programs. Other permissible/appropriate terms to describe the status of the product/part include: "INSPECTED", "REPAIRED," "REBUILT," or "ALTERED."

(m) Block 13. Remarks. Enter any information or references to support documentation necessary for the user or installer to make a final determination of airworthiness of the products/parts listed in Block 7. Each statement must specify which item identified in Block 6 is related. Examples of information to be supplied are as follows :

(1) Any restrictions (e.g., prototype only).

(2) Alternative approved part number.

(3) Compliance or non-compliance with airworthiness directives or service bulletins.

(4) Information on life-limited parts.

(5) Manufacturing, cure, or shelf-life data.

(6) Drawing and revision level.

(7) When used for conformity the word "CONFORMITY" must be entered in capital letters. In addition, an explanation of the products/parts use, e.g., pending approved data, type certificate pending, for test only, etc., shall be provided. Information concerning a conformity inspection such as design data, revision level, date, project number.

(8) When used for spare parts identify whether the parts are from the original manufacturer or another approved source and are made to the TSO. In addition, if the Airworthiness Approval Tag [AAT] is for spare parts or sub components of a NCAA approved replacement part, the TSO authorisation shall be listed in Block 13.

(9) When used for return to service this block shall contain the data required by 5.7.1.2.

(n) Blocks 14, 15, 16, 17 and 18: Must not be used for maintenance tasks by Part 6 approved maintenance organisations. These blocks are specifically reserved for

release/certification of newly manufactured items in accordance with certification procedures of products and parts of the State of Design or State of Manufacture (e.g. the US Federal Aviation Administration procedures as set forth in 14 CFR Part 21).

(o) Block 19. Return to Service. The information is already pre-printed in the block.

(p) Block 20. Signature. Signature of the individual authorised by the air agency, air carrier, or the manufacturer in accordance with 5.6.1.5 (a)(2), (3), and (4). The approval signature shall be manually applied at the time and place of issuance.

(q) Block 21. Certificate number. Enter the AMO or air operator operating certificate number. For manufacturers returning to service after rebuilding products/parts the production approval number shall be entered.

(r) Block 22. Name. The typed or printed name of the individual identified in Block 20.

(s) Block 23. Date. The date the NCAA Form One is signed and the product is returned to service. This does not need to be the same as the shipping date, which may occur at a later date.

IS: 6.5.1.9—(a) The AMO shall be in receipt of all airworthiness data appropriate to support the work performed from the Authority, the aircraft/aeronautical product design organisation, and any other approved design organisation in the State of Manufacture or State of Design, as appropriate. Some examples of maintenance-related documents are:

Airworthiness
Data.

- (1) Civil Aviation Regulations.
- (2) Associated advisory material.
- (3) Airworthiness directives.
- (4) Manufacturers' maintenance manuals.
- (5) Repair manuals.
- (6) Supplementary structural inspection documents.
- (7) Service bulletins.
- (8) Service letters.
- (9) Service instructions.
- (10) Alteration leaflets.
- (11) Aircraft maintenance program.
- (12) NDT Manual, etc.

(b) A procedure shall be established to monitor the amendment status of all data and maintain a check that all amendments are being received by being a subscriber to any document amendment scheme.

(c) Airworthiness data shall be made available in the work area in close proximity to the aircraft or aeronautical product being maintained and for supervisors, mechanics, and certifying staff to study.

(d) Where computer systems are used to maintain airworthiness data, the number of computer terminals shall be sufficient in relation to the size of the work program

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to enable easy access, unless the computer system can produce paper copies. Where microfilm or microfiche readers/printers are used, a similar requirement is applicable.