



CHAPTER 19

Civil Aviation Safety Inspector Qualifications Training and Duties - Airworthiness Inspectors

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1.0 PURPOSE

This Chapter is issued to provide information and guidance to the Authority on qualifications and training requirements for Airworthiness Inspectors in order to enable them carry out their duties effectively and efficiently.

2.0 REFERENCES

- 2.1 The Civil Aviation Act 2006;
- 2.2 The Civil Aviation Regulations
 - 2.2.1 [Part 2](#) Personnel Licensing;
 - 2.2.2 [Part 5](#) Airworthiness;
 - 2.2.3 [Part 8](#) Operation of Aircraft;
 - 2.2.4 [Part 9](#) Air Operators Certification and Administration;
 - 2.2.5 [Part 4](#) Registration of Aircraft;
 - 2.2.6 [Part 6](#) Approved Maintenance Organizations;
 - 2.2.7 [Part 11](#) Aerial work;
 - 2.2.8 [Part 3](#) Approved Training Organizations;
 - 2.2.9 [Part 10](#) Commercial Air Operations by Foreign Air Operator;
 - 2.2.10 [Part 7](#) Instruments and Equipment and;
 - 2.2.11 [Part 14](#) Rules of the Air and Air Traffic Control
- 2.3 ICAO Doc 9389-AN/919 - Manual of Procedures for an Airworthiness Organization;
- 2.4 FORM: [FORM: AC-AWS019](#)



3.0 BACKGROUND

- 3.1** The Section of Airworthiness is responsible for performing the Nigeria Civil Aviation Authority (Authority) obligations of maintaining regular safety oversight of all of the airworthiness aspects of aviation in the country, which includes certification and surveillance of air operators, approved maintenance organizations and oversight of any other person or organization involved in the maintenance/modification/repair of aircraft and training aspects of personnel engaged in civil aviation. The Section is also addressing responsibility for the Licensing/approval of maintenance staff as a part of its regular inspection programme in support of Personnel Licensing Section.
- 3.2** Effective safety oversight is tenet to aviation safety ensures maintenance of high standards and will fulfill Nigeria obligations under the Convention on International Civil Aviation for providing safety oversight of all civil aviation activities in the country in line with the requirements of the Nigeria Civil Aviation Regulations.
- 3.3** The Airworthiness Inspectors are responsible for carrying out all of the safety oversight responsibilities assigned by the Civil Aviation Act 2006 and its Regulations referred to in 2 above. In order for Nigeria to maintain a satisfactory level of airworthiness in line with the legislation requirements and protect public interest it will depend on the competence of the Airworthiness Inspectors.
- 3.4** Airworthiness inspectors should have educational and technical experience qualifications that compare favorably with the maintenance personnel they will inspect or regulate. Furthermore, they should also enjoy terms and conditions of service consistent with their education, technical knowledge and experience comparable to those personnel they will inspect and supervise.

4.0 FUNCTIONS AND STAFFING OF AIRWORTHINESS SECTION/DEPARTMENT/DIVISION

- 4.1** The airworthiness regulatory functions include:
- 4.1.1 aircraft registration, deregistration and maintenance of civil aircraft register;
 - 4.1.2 recommendation on acceptance of aircraft type certificate;
 - 4.1.3 evaluation and advice on the acceptance of the application for production of aircraft or aircraft component;
 - 4.1.4 approval of changes to the type certificate (modifications & repairs);
 - 4.1.5 issue/renewal and validation of Certificates of Airworthiness;
 - 4.1.6 approval of aircraft maintenance organizations;
 - 4.1.7 certification of air operators;
 - 4.1.8 investigation of accidents, incidents and major aircraft defects;



- 4.1.9 service bulletins and foreign airworthiness directives review for applicability to national aircraft;
 - 4.1.10 conducting examinations for applicants of aircraft maintenance licenses;
 - 4.1.11 development of technical guidance materials for airworthiness practices and procedures; and
 - 4.1.12 development and recommendation of regulatory changes to civil aviation legislations as appropriate
- 4.2** The Nigeria Civil Aviation Authority and the Director General is by the Civil Aviation Act 2006 empowered to carry out the above functions and through the allocation of functions, the Airworthiness Section is mandated and the inspectors are appropriately delegated by the Director General to carry out the above functions.
- 4.3 Staffing requirements**
- 4.3.1 Staffing of the Airworthiness Section with a sufficient number of suitable Airworthiness Inspectors, experienced, qualified and capable of accomplishing the wide range of activities required specified broadly in 4.1 and in 7 and 8 below is paramount to the success of the safety oversight obligations of the Nigeria Civil Aviation Authority.
 - 4.3.2 Airworthiness Inspectors must not only have the knowledge, experience and qualifications to carry out their duties in a professionally sound manner, but also possess the personality to win the respect and confidence of the operators. This would require a reasonable level of tact, understanding, firmness, impartiality, integrity and an exemplary personal conduct both in the office and at the operators premises.
 - 4.3.3 The number of Airworthiness Inspectors required will be determined by the level of and the growth of aviation in the country. A periodic review will take place from time to time to determine whether or not there needs to be a change in the number of Inspectors.
 - 4.3.4 Determination of the minimum number that is considered reasonable for Airworthiness Inspectors to carry out their tasks will take into account the number of a particular type or group of types of aircraft to be handled by one Airworthiness Inspector taking also into consideration the number of operators and the complexity of the air operations as these would affect the workload as well as the cooperative arrangement under the COSCAP-BAG Community.
 - 4.3.5 A rough rule of thumb would be one Airworthiness Inspector per approximately ten aircraft of a particular type or group of a particular category in scheduled operations:
 - (a) for turbo props up to 30,000kg MTOW; and
 - (b) for jet in two groups of -
 - (i) medium (single aisle); and
 - (ii) Large transport.
 - 4.3.6 For general aviation (to include those used for charter operations):
 - (a) single piston engine - thirty aircraft, regardless of type, per inspector;



- (b) Twin engine piston - twenty aircraft, regardless of type per inspector.
- (c) turbo props up to 30,000kg MTOW - approximately twenty aircraft of a particular type or group of a particular category per inspector.

Note: the ratio between required airworthiness inspectors between mechanical and avionics would be determined by the complexity of the fleet e.g. old generation aircraft such as B727 may require more mechanical inspectors (5 to 1) as opposed to new generation aircraft such as A320 will require more avionics inspectors (3 to 1).

5.0 QUALIFICATIONS OF AIRWORTHINESS INSPECTORS

5.1 Academic and Professional Qualifications

- 5.1.1 A holder of a University Degree in relevant field e.g. aeronautical, mechanical, electrical, electronic or telecommunication; or equivalent professional qualifications.
 - a) For graduates, except for aeronautical engineers, they should have attended or be provided with a basic training in aircraft maintenance engineering;
 - b) For equivalent professional qualifications they should possess aircraft maintenance engineer 's licenses with ratings or appropriate approvals, commensurate with their job responsibilities, i.e., Category A or C (mechanical) Licenses with airframe and power plant ratings, category X or R (Avionics) License with ratings in Electrical, Instrument or Radio.

5.2 Experience

- 5.2.1 Have progressed through positions of increased technical and supervisory responsibility in the aviation industry covering civil and/or military aviation as appropriate.
- 5.2.2 At least five years of employment as a fully qualified aircraft maintenance engineer is normally required to obtain minimum qualifications and experience for an individual to adequately accomplish the duties and responsibilities of a basic starting position in the mechanical or avionics field as an Airworthiness Inspector.

5.3 Other Attributes

- 5.3.1 The Inspectors should possess a high degree of integrity, be impartial in carrying out their tasks, be tactful, have a good understanding of human nature and possess the ability to get along well with people.
- 5.3.2 Should be computer literate.



6.0 TRAINING OF AIRWORTHINESS INSPECTOR

The Airworthiness Inspectors should be provided with basic training before assigning him/her for airworthiness inspectors' job functions. In all cases, they must have successfully completed a CAA approved Basic Course, detailed in 6.2, for Airworthiness Inspectors.

6.1 For a newly recruited Inspector who meets the requirements specified in 5 above, the mandatory ITS training should be provided to qualify him/her as an Inspector. In addition to the ITS, the following prerequisite basic training is required:

6.1.1 Civil Aviation Regulations;

6.1.2 Technical Guidance Materials;

6.1.3 Authority acceptable Airworthiness Inspectors Course (e.g. FAA (ICAO endorsed Government Aviation Safety Inspector Airworthiness, UK CAA, JAA, etc.) and;

6.1.4 OJT in specific duties specified in the OJT Appendix hereunder under a qualified senior Inspector;

6.1.5 Aircraft type/systems course (as required)

6.2 Advanced/Specialized training required for Airworthiness Inspectors instructions will include:

6.2.1 Human factors - maintenance;

6.2.2 Auditor 's Course

6.2.3 Special trainings in different applicable techniques to reflect inspection requirements in line with technological advances e.g. welding, composite materials, destructive testing, dangerous goods; ETOPs operations; MMEL/MEL; SMS etc.

6.2.4 Structural Inspection Programs

6.2.5 Accident Investigation Course

6.2.6 Safety Oversight training

6.2.7 Examination technique

6.2.8 Special training in environment protection matters related to aircraft engine emissions and aircraft noise.

6.3 Airworthiness Inspectors must also be provided with continuous training to ensure that they remain current in their profession. Periodic practical and theoretical specialized (technical) training, including supervisory courses, will enable the Inspectors to maintain a high level of knowledge and expertise to carry out their responsibilities effectively and efficiently.



6.4 To ensure systematic and comprehensive training of Airworthiness Inspectors it is necessary to maintain a Training File for each Inspector. The Training File records must be reviewed and updated at regular intervals. Record of all 'On Job Training' imparted to an Inspector must also be maintained in the Training File.

6.5 Technical Training of Airworthiness Inspectors

6.5.1 Technical Training of Airworthiness Inspectors may be accomplished from several sources. These can be contracted to an operator who offers a course that is approved in its country or offered by aircraft manufacturers.

6.5.2 An Inspector is required to undergo a type-rating course before approving maintenance schedules and related activities. Routine surveillance activities can be accomplished on any aircraft in airline service whether or not the Inspector is type trained on that particular type.

6.5.3 Although Airworthiness Inspectors are not required to keep their licenses current when employed by the Authority and performing certification or surveillance activities, they are required to maintain the same level of knowledge as is required of engineers that are exercising the privilege of their licenses.

6.5.4 There may be an occasion where there is no inspector qualified on a particular type of aircraft and there is an urgent need for one to accomplish a task that normally required type training. In such cases, the Director General may, at his discretion, relax the requirements, taking into consideration the Inspectors past performance, employment record and experience.

7.0 DUTIES OF AIRWORTHINESS INSPECTORS

7.1 The duties and responsibilities of Airworthiness Inspectors are as laid down in this Order and are divided into various groups, including -

7.1.1 granting of Approvals to carry out airworthiness related activity;

7.1.2 aircraft certification;

7.1.3 examination/licensing of aircraft maintenance engineers;

7.1.4 approval of modifications and major repairs; and

7.1.5 routine surveillance and audit.

7.2 The specific duties and responsibilities of individual airworthiness Inspectors will vary somewhat depending on their technical specialty (i.e., power plants, avionics, airframes, etc.). But in general terms they should include at least the following:

7.2.1 conduct inspections and carry out auditing functions;



- 7.2.2 prepare detailed reports on inspections and auditing activities;
- 7.2.3 enforce compliance with airworthiness regulations and directives;
- 7.2.4 report breaches of regulations and directives to the appropriate authority within the Authority;
- 7.2.5 report defects noted to aircraft operators/owners/type certificate holders and approved airworthiness organizations for remedial action;
- 7.2.6 conduct, in co-operation with members of the Authority Operations Section, operator certification inspections;
- 7.2.7 monitoring airworthiness certifications and ensuring that they are carried out by persons who are properly authorized, and that the certifications made are for the purpose and in accordance with the requirements of the applicable airworthiness regulations;
- 7.2.8 monitoring the implementation of the relevant airworthiness regulations;
- 7.2.9 familiarizing himself with the content of all Airworthiness Directives, service bulletins and similar documents in respect of the aircraft (including power plants) and equipment registering or operating into the State and monitoring the extent of implementation;
- 7.2.10 reviewing maintenance procedure manuals, making recommendations in respect of amendments which may be required by the Authority prior to approval of the manual;
- 7.2.11 undertaking liaison with other inspectors regarding recommendations in respect of issue and renewal of Certificates of Airworthiness, checking all documents associated with the above including the flight manual amendment status and airframe and engine log books;
- 7.2.12 Checking that all relevant work are carried out, and authorizing release for test flight of aircraft and avionics installation issued ensuring that the resulting reports are satisfactory and in accordance with the Authority requirements;
- 7.2.13 approval of preventive maintenance programs;
- 7.2.14 monitoring approved operator maintenance training programs;
- 7.2.15 conducting inspections of operator 's route station facilities;
- 7.2.16 adherence to and responding promptly where necessary to all orders/notices/circulars issued by the Authority;
- 7.2.17 Using initiative to pursue any matter that needs to be attended to by the Authority, including amendment to regulations and technical guidance, in the interest of air safety and for efficiency of the system;
- 7.2.18 Ensuring that confidentiality is always maintained;



7.2.19 Maintaining a constant dialogue with operators and officials in the aviation industry on professional matters in order to keep up to date with latest developments.

8.0 QUALIFICATIONS REQUIRED FOR INSPECTOR ACTIVITIES

8.1 The following are highlights for the qualifications required by an inspector for conducting of the various activities under the airworthiness functions:

- 8.1.1 (a) Type of duty - General Regulatory Matters
- (i) Preparation of Draft regulations and advisory material and recommending changes to the National Civil Aviation law;
 - (ii) Examination of current and new international and foreign Airworthiness standards related to continuing Airworthiness and determination of the need for adoption;
 - (iii) Conferring on National and international levels on matters relating to the regulation of Airworthiness; or
 - (iv) Giving of advice and recommendations to other areas of the Authority responsibilities on legal matters.
- (b) Inspectors Qualification required
- (i) Completion of a basic inspector course; and
 - (ii) A thorough knowledge of the Nigeria Civil Aviation Regulations and advisory material published by the Authority.
- 8.1.2 (a) Type of duty - Aircraft Maintenance
- (i) Survey of aircraft for issue/renewal of the Certificate of Airworthiness;
 - (ii) Evaluation of maintenance programmes;
 - (iii) Preparing a report for approval of a maintenance programme;
 - (iv) Auditing of Facilities and Equipment for the activity for which the approval is sought;
 - (v) Auditing of required Technical Data and ensuring their status;
 - (vi) Assessment of man power requirements; or
 - (vii) Preparing task report for approval.
- (b) Inspectors Qualification required
- (i) Completion of Basic inspector courses;
 - (ii) Completion of Advanced course (Depending on the activity of the operator);
 - (iii) Completion of type rated course on the type of aircraft, engine and systems as per the specialty of individual.
- 8.1.3 (a) Type of duty - Routine Surveillance / Audit of Approved Maintenance Organization
- (i) Carrying out routine and / or specific audits;
 - (ii) Preparing audit reports;
 - (iii) Reporting breaches of regulations and directives to the appropriate authority within the Authority;
 - (iv) Reporting defects noted to aircraft and approved organizations for remedial action;
 - (v) Participating with operation inspectors for operator certification inspection;



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- (vi) Carrying out follow-up audits as required.
 - (b) Qualification required
 - (i) Completion of Basic Inspector course;
 - (ii) Completion of Advanced course (Audit course in particular)
 - (iii) Type course on Airframe/ Power plant and systems, or
 - (iv) Experience in Airline Maintenance
- 8.1.4 (a) Type of duty - Maintenance Personnel Licensing
- (i) Preparation of examination papers and marking schemes;
 - (ii) Conducting oral/practical examination;
 - (iii) Marking the examination papers and/or preparing assessment reports;
 - (iv) Keeping records and observing confidentiality
- (b) Inspectors Qualification required:
- (i) Completion of a Basic Inspector 's course;
 - (ii) Completion of a specific type training course on specific trade; and
 - (iii) Completion of examination technique course.
- 8.1.5 Any other activities as assigned by the Head will require qualifications dependent on the activity for which the inspector is assigned e.g. investigation of incident/accident, will require completion of training in accident investigation; evaluation of specialized function such as NDT or welding or environment protection regulation will require training in that area.



APPENDIX

AIRWORTHINESS INSPECTORS ON-JOB-TRAINING GUIDE

1.0 BACKGROUND



- 1.1 **PREREQUISITES.** New inspectors will be programmed for initial and ongoing training based on their assigned duties. The inspector 's initial training is commonly referred to as, basic indoctrination training, or initial training. The inspectors initial new hire courses are mandatory and must be completed satisfactorily.
- 1.2 **ON-THE-JOB TRAINING (OJT).** Newly hired inspectors, and inspectors transitioning to a position that they have not previously received OJT for, are assigned an experienced and qualified inspector who is jointly responsible with the inspector for completion of OJT requirements. The inspector will go through the following levels of OJT training:
 - 1.2.1 The first level of training is familiarization with Authority guidance relevant to a particular task or job.
 - 1.2.2 During the second level the inspector observes a qualified inspector performing the task.
 - 1.2.3 In level three, a qualified inspector observes the trainee perform the task. The OJT training record is certified at each level and signed off when the inspector is competent at performing the task.
- 1.3 Complete FORM: [O-AWS019](#) appended to the OJT training guide as follows:
 - 1.3.1 Block 1 enter the name of the inspector receiving OJT training
 - 1.3.2 Block 2 check specialty of inspector
 - 1.3.3 Block 3 enter the position the inspector is currently in
 - 1.3.4 Block 4 enter the task that the inspector is receiving OJT on
 - 1.3.5 Block 5 enter the corresponding Order number that relates to the task
 - 1.3.6 Blocks 6, 7 & 8 the experienced inspector and the inspector receiving OJT should enter their initials and the date which the inspector completed that level of OJT training.
 - 1.3.7 Block 9 should be signed and dated by the experienced inspector to confirm that the inspector receiving training has performed and satisfactorily completed OJT in the subject task
- 2.0 The inspector's official training and OJT records are maintained by the Authority for the duration of the inspector 's employment.
- 2.1 The Authority is responsible for ensuring that all their inspectors receive OJT training for the specific duties that they will be performing on a regular basis and to maintain records documenting the OJT training that has taken place. Additionally, the Authority is responsible to continually monitor the effectiveness of the OJT program and revise as necessary.
- 2.2 Newly hired, or newly assigned inspectors will be considered qualified to complete job functions and or tasks associated within their specialty when all profile training requirements, aviation personnel qualifications, and certifications have been satisfactorily completed, verified and documented. For example, the following conditions must be met in order for an Air Operator Operations Inspector to be



considered qualified to perform specific job functions without supervision including:

- 2.2.1 Satisfactory completion of indoctrination training;
- 2.2.2 Additional Authority programmed and profile training; training profiles;
- 2.2.3 Satisfactory completion of specific training courses for unique job functions, if required; and
- 2.2.4 Satisfactory completion of all OJT requirements for that job function.

NOTE: *In certain instances, the Authority may authorize the inspector to perform a required job function prior to completing all of the training associated with the inspector's specialty position assignment.*

3.0 The following guide has been developed to assist with the training of Airworthiness Inspectors. It is provided as a guide and should not be considered limiting. Airworthiness Inspector (AWI) activities often interact with Operations, Cabin Safety, Dangerous Goods. These specialty activities are briefly mentioned within this checklist. The following specialties will normally deal with issues listed:

3.1 Flight Operations

- 3.1.1 Ramp inspections;
- 3.1.2 Cabin end route inspections;
- 3.1.3 Cockpit en route inspections;
- 3.1.4 Pilot proficiency and competency checks for operators; and
- 3.1.5 Flight Engineer proficiency checks for operators.

3.2 Cabin Safety

- 3.2.1 Safety Features Cards
- 3.2.2 Cabin Attendant Manuals
- 3.2.3 Cabin Attendant Training Programs

3.3 Dangerous Goods

- 3.3.1 Company Operations Manual Dangerous Goods Chapter Review
- 3.3.2 Company Dangerous Goods Permit(s) for Equivalent Level of Safety
- 3.3.3 Dangerous Goods Specialty Audits and Inspections
- 3.3.4 Dangerous Goods Cargo Facility Inspections



- 3.3.5 Dangerous Goods Random Ramp Inspections
- 3.3.6 Dangerous Goods Passenger Terminal Inspections
- 3.3.7 Dangerous Goods Surveillance Operations
- 3.3.8 Dangerous Goods Packaging Inspections
- 3.3.9 Dangerous Goods Investigations and Compliance Actions
- 3.3.10 Company Dangerous Goods Records and Document Retention programs
- 3.3.11 ICAO Doc 9284 Technical Instructions for Safe Transport of Dangerous Good, by Air

4.0 This checklist has been written with the intent of capturing most activities encountered by Air Carrier Airworthiness Inspectors. It is not meant to reflect specific tasks, such as certain office routines or methods on how particular situations are dealt with.

Note: *A qualified AWI shall be entrusted with activities specified in 3.1.1 and 3.1.2 and 3.2 if specialised inspectors in this area are not available and therefore AWIs should be trained on such issues as Cabin Safety, Carriage of Dangerous goods, en route inspection etc.*



On-Job-Training Activities Checklist

SECTION 1 - OFFICE ADMINISTRATION ACTIVITIES

- 1.0 Meet the staff and discuss a brief outline of their responsibilities.**
- 2.0 Review the following documents.**
 - 2.1** Job Description
 - 2.2** Delegation of Authority
 - 2.3** Access to Information
- 3.0 Explain Office Procedures and Policy.**
 - 3.1** Approval of Leave
 - 3.2** Working Hours
 - 3.3** Employee In/Out Board
 - 3.4** Vehicle Sign Out
 - 3.5** Procedures for accident reporting
 - 3.5** Personal vehicle use
 - 3.6** Inspector Scheduling System
 - 3.6.1** Travel arrangements
 - 3.6.2** Approval requests
- 4.0 Explain Administrative Procedures**
 - 4.1** Forms, training.
 - 4.2** Travel Claims and Advances
 - 4.3** File Register - Correspondence
 - 4.4** Work at home
- 5.0 Review Documents**
 - 5.1** Civil Aviation Rules/Regulations;
 - 5.2** Airworthiness Inspector Manual (Orders);
 - 5.3** Manual of Regulatory Audits (If available);
 - 5.4** MMEL /MEL Policy and Procedures Manual;
 - 5.5** Policy Letters (Aeronautical Information Circulars);
 - 5.6** Advisory Circulars;
 - 5.7** Enforcement/Compliance Manual;
 - 5.8** ICAO Annexes 1 to 18;
 - 5.9** ICAO Documents -
 - a)** 9051- AN/896 Airworthiness Technical Manual;
 - b)** 9365-AN/910 Manual of All-Weather operation;
 - c)** 9379-AN/916 Manual for procedures for establishment and management of a state 's Personnel Licensing System;
 - d)** 9389- AN/919 Manual for procedures for an Airworthiness Organization;
 - e)** 9401- AN/921 Manual on establishment and operation of Aviation Training Centers;
 - f)** 9501- AN/929 Environmental Technical Manual on the use of Procedures in the Noise



- Certification of Aircraft;
- g) 9574- AN / 934 Manual on implementation of R.V.S.M;
 - h) 9642-AN/ 941 Continuing Airworthiness Manual;
 - i) 9654-AN/ 945 Manual on prevention of problematic use of substances in the aviation work place;
 - j) Circular 253-AN/151 Human Factor Digest No 12 (Human Factor in Aircraft Maintenance and Inspection); and
 - k) 7300 Convention on International Civil Aviation.

6.0 Training

6.1 Review Training Policy Letters

6.2 Training Calendar of Courses

6.2.1 Airworthiness Inspector Course;

6.2.2 Advance Airworthiness Inspector Courses (To include- ETOPS, CAT II & III, RVSM/MNPS, and MMEL);

6.2.3 Audit Policy and Procedures Course;

6.2.4 Aircraft Performance Course (Depending on Assigned Duties);

6.2.5 Aircraft Type Training (as required);

6.2.6 Aviation Safety Promotion Course (Depending on Assigned Duties);

6.2.7 Accident Investigation Course (Depending on Assigned Duties); and

6.2.8 Personnel Licensing Course (Depending on Assigned Duties).

6.3 Personal Development

6.3.1 Development Course

6.3.2 Computer and Work Processing Courses

SECTION 2 - AIRWORTHINESS ACTIVITIES (ADMINISTRATION)

1.0 Process Applications for Operating Certificates

1.1 Check and confirm application is complete
Inspector must know:

1.1.1 What comprises a complete application package;

1.1.2 Refer to Certification Manual and Airworthiness Inspector Manual and ICAO Doc 8335;

1.1.3 Details required to complete application; and

1.1.4 What form application should take

1.2 Circulate forms to appropriate branches Inspector must know:

1.2.1 Which sections share certification responsibilities; and

1.2.2 What forms to circulate

1.3 Verify management personnel qualifications Inspector must know:

1.3.1 What qualifications are required from the Regulations; and

1.3.2 Whether the qualifications submitted are consistent with company operations

1.4 Review manuals ensure they are compatible with requirements Inspector must understand:

1.4.1 The requirements of the Regulations;

1.4.2 That the Procedures Manual accurately reflects Air Operator 's operation;

1.4.3 Training Manual; and

1.4.4 Complete the check list in respect to this functional area.



1.5 Recommend required approvals

Inspector must know:

- 1.5.1 How to make an overall assessment of the company submission to ensure compliance with terms of Approval and applicable Regulations;
- 1.5.2 How to complete all relevant forms;
- 1.5.3 The Five Phase Certification Procedures Order;
- 1.5.4 What approvals are required for each aircraft 's Maintenance program;
- 1.5.5 Approve training program which include:
 - (i) A/C Type (To include type course, and simulator/C.P. T experience including ground running of engines.);
 - (ii) MEL; and
 - (iii) Company Procedures.

1.6 Arrange for Base Inspection

Inspector must know:

- 1.6.1 How to plan and conduct an initial inspection as per relevant Orders.
- 1.6.2 Who to contact to make arrangements; and?
- 1.6.3 Complete check list of relevant functional area.

1.7 Ensure the file is complete.

The inspector must know

- 1.7.1 How to make annotations on a file;
 - 1.7.2 How to record reference for findings; and
 - 1.7.3 Follow up action if any.
- 2.0 Process amendments to Engineering Manual and Operations Specifications (or equivalent doc.)
 - 2.1 Confirm change is consistent with regulations, operation and scope of approval Inspector must know the:
 - 2.1.1 Scope of the approval; and
 - 2.1.2 Operator 's authority.
 - 2.2 Advise operator of necessary changes (if required)



Inspector must know:

2.2.1 The standards relative to change requested; and

2.2.2 Effective writing techniques.

2.3 Verify accuracy of final draft

2.4 Recommend acceptance/approval

2.4.1 Differentiate between approvals and acceptances; and

2.4.2 Recommendation procedure

3.0 Minimum Equipment List Approvals

3.1 Compare proposed MEL to MMEL

3.1.1 Research standards, legislation, requirements and procedures;

3.1.2 Study aircraft systems;

3.1.3 Discuss with appropriate counterpart in Operations Sections;

3.1.4 Purpose of proposed MEL; and

3.1.5 Reference of MMEL.

3.2 Ensure proposed MEL does not conflict with any legislation or design standard

3.2.1 Review pertinent legislation; and

3.2.2 Obtain concurrence from Operations Sections.

3.3 Ensure proposed MEL is appropriate for the operation

3.3.1 Review particular type of operation

3.4 Recommend changes to the MEL

Inspector must be familiar with:

3.4.1 Minimum equipment required for proposed type of operation

3.4.2 The approving authority for MEL 's

3.5 Issue approval

Follow the normal approval procedure.



- 4.0 Special approval if requested.
- 4.1 Operation in R.V.S.M area and Category II and III operation
 - 4.1.1 The inspector must be aware of the technical requirement
 - 4.1.2 Organization must prepare and submit specific maintenance programme for approval
 - 4.1.3 Inspector must ensure programme meets the component and Aircraft manufacturer's recommendations and country's Regulations;
 - 4.1.4 Ensure that the operator is equipped to carry out all the inspection items.
 - 4.1.5 Ensure specific training is given to authorized personnel who authorize such flights.
- 5.0 Regulatory Compliance Investigations
 - 5.1 Conduct preliminary investigation
 - 5.1.1 How to collect information
 - 5.1.2 How to complete Preliminary Investigation Report



SECTION 3 - FIELD ACTIVITIES

- 1.0 Aircraft Inspections
 - 1.1 Inspect aircraft documents
 - 1.1.1 Documents that are required;
 - 1.1.2 C of A requirements;
 - 1.1.3 Registration and leasing requirements;
 - 1.1.4 radio License;
 - 1.1.5 Weight and balance report, amendments and validity;
 - 1.1.6 Aircraft flight manual, supplements and amendments;
 - 1.1.7 Journey log, hold items, MEL; and
 - 1.1.8 Release for flight.
 - 1.2 Inspect instrumentation and associated communication and navigation equipment
 - 1.2.1 Instruments and communication/navigation equipment required for the particular type of operation;
 - 1.2.2 Instrument markings;
 - 1.2.3 Compass card validity; and
 - 1.2.4 Auto-pilot/Stabilization Augmentation Systems.
 - 1.3 Inspect emergency equipment and emergency exits
 - 1.3.1 Safety equipment;
 - 1.3.2 Proper exit marking and lighting;
 - 1.3.3 Exit accessibility;
 - 1.3.4 ELT requirements; and
 - 1.3.5 Fire extinguishers.
 - 1.4 Check safety information is available and adequate
 - 1.4.1 Requirements;



- 1.4.2 Acceptable format;
- 1.4.3 Where located; and
- 1.4.4 Passenger, Safety Information Card.
- 1.5 Inspect cargo restraint system and other auxiliary equipment
 - 1.5.1 Operate load release systems;
 - 1.5.2 Restraining loads;
 - 1.5.3 Various methods of restraint;
 - 1.5.4 External load release;
 - 1.5.5 External load methods; and
 - 1.5.6 Segregation (Dangerous Goods).
- 2.0 Ramp Checks
 - 2.1 Documents on board
 - 2.2 Emergency equipments on board.
 - 2.3 Compliment of cabin crew
 - 2.4 External check by crew member
 - 2.5 Release to service by appropriate person
 - 2.6 Use of MEL/ Deferred defect
 - 2.7 Release for special operation like ETOPS, RVSM, Cat II or III etc.