

CIVIL AVIATION AUTHORITY, BANGLADESH
AIR NAVIGATION ORDERS
(Flight Operations Requirements)

PART A - FLIGHT CREW LICENCING

**SUB : PART (OPS) A-7 REQUIREMENTS FOR APPROVAL OF
 TYPE RATING TRAINING ORGANIZATION (TRTO)**

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SUBJECT: REQUIREMENTS FOR APPROVAL OF TYPE RATING TRAINING ORGANIZATION (TRTO).

1. INTRODUCTION :

- 1.1 With the growth of aviation and in order to facilitate availability of trained flight crew with appropriate aircraft ratings endorsed on their licenses. It has become imperative that only those organizations which meet the criteria in this Air Navigation Order (ANO) are to be approved for conducting training of flight crew and other personnel on aircraft type rating courses.
- 1.2 These organizations shall be nomenclatured as “Type Rating Training Organizations. (TRTOs)”.

- 1.3 A Type Rating Training Organization (TRTO) is an organisation staffed, equipped and operated in a suitable environment offering aircraft type rating training, and/or synthetic flight instruction and, where applicable, theoretical instruction for specified training programmes.
- 1.4 This ANO lays down the guidelines for the aircraft operators and flying training establishments for submission of application seeking CAAB's "approval assessment", Specifies the TRTO approval procedures and contains information on the required associated documentation.
- 1.5 The TRTO must be self-sufficient and capable of assessing the trainees at the completion of each training module. The two training modules envisaged are theoretical knowledge instruction and flight instruction, part or all of which may be conducted in Synthetic Training Devices (STDs). In either case, the approved TRTO's designated Head of Training is directly responsible for its training standards and compliance.

2. APPROVAL PROCEDURE OF TRTO IN BANGLADESH.

- 2.1 Organization seeking approval as TRTO shall submit initial application to the Chairman, CAAB (Chairman) as per Appendix 'A' to this ANO (Guidance and Check list for Training Centre Operations Manual (TCOM)).
- 2.2 After scrutiny of the application and related documents, CAAB team shall inspect ground and / or flight/ synthetic flight training establishments. Inspection will include observation of class room training, flight device training including briefing and debriefing. The training records must be made available for inspectors' perusal. Inspection may be conducted by Flight Operations Inspectors and or personnel designated by Chairman on its behalf.

On satisfactory inspection, initial approval of the TRTO will be granted for a period of one year from the date of issue of such approval subject to compliance to the provisions of this ANO unless revoked/suspended by Chairman.

The approval may be renewed each year by submitting an internal assessment report in compliance of this ANO followed by inspection of inspector and or personnel from CAAB.

TRTO shall conduct the training courses, which are approved by Chairman.

3. REVOCATION, SUSPENSION OR VARIATION OF APPROVAL

- 3.1 An approval issued by the Chairman may be revoked, suspended or varied, at any time, if the requirements cease to be met in part or in whole, or if the standards on which approval was granted are not maintained. The organization will be formally notified of the non-conformances and, if necessary, a restricted approval document issued to permit the remedial action to be taken within a specified time. Should the organization fail to take remedial action in the specified time, revocation, suspension or variation of the approval will be considered.

- 3.2 Training organizations are to notify the Chairman on completion of the remedial action and that the non-conformance has been cleared. An Audit Report shall be raised detailing the action taken.

4. FINANCIAL RESOURCES

- 4.1 A TRTO shall nominate a person acceptable to the Authority who shall satisfy the Authority that sufficient funding is available to conduct training to the approved standard. Such person shall be known as the designated TRTO accountable manager.
- 4.2 Financial Evaluation of the Applicant for TRTO approval shall be subjected to financial assessment. Air Operator Certificate (AOC) holders applying for TRTO approval may be given a dispensation from such evaluation.

5. INSPECTION

In addition to the initial inspection, the Authority will conduct periodic inspections to determine the TRTO's compliance with ANO and the approval. During such visits, access shall be given by the TRTO to training records, authorisation sheets, technical logs, lectures, study notes and briefings and any other relevant material. A copy of report on a visit to a TRTO will be made available to that TRTO.

6. MANAGEMENT AND TRAINING STAFF

- 6.1 The management structure shall allow supervision of all grades of staff by persons having the experience and qualities necessary to ensure the maintenance of high standards. Details of the management structure, indicating individual responsibilities, shall be included in the TRTO's Training Centre Operations Manual (TCOM).
- 6.2 **TRTO Chief of Training (CT):**

Approval of CT shall be obtained from Chairman, CAAB. CT will be directly responsible to the Chairman for compliance of CAAB requirements. He shall be an examiner on at least one of the aircraft types trained for by the TRTO or higher. He must have 3000 hours of PIC and extensive experience in training as flight instructor along with sound aviation management capability.
- 6.3 The TRTO shall have adequate personnel necessary to accomplish the training objectives. The duties of each instructor shall be identified and documented and included in the Training Center Operations Manual (TCOM).
- 6.4 TRTO will employ an adequate number of qualified and competent staff which is acceptable to Chairman. The management structure will ensure adequate supervision of all training staff by persons having necessary experience and qualities. The Chairman will place particular emphasis on the qualifications and competence of all training staff in their specialization and training techniques.

- 6.5 A more detailed TRTO management structure will be required to be included in the training manual. It is essential that all elements of the management structure are clearly set out in the TRTO approval submission.
- 6.6 The number of instructors and examiners, taking into account their qualifications, must be adequate to support a TRTO. In addition SFI's / TRI's / SFE's / TRE's, working in other managerial or administrative duties, may not always be able to give their full attention to the TRTO; accordingly numbers of trainers to cater for such non-availability of management personnel is to be ensured.

7. INSTRUCTORS

7.1 FLIGHT TRAINING INSTRUCTORS

For flight training duties, instructor shall hold or have held a professional pilot licence with Instructor/or SFI rating or higher and have instructional experience appropriate to the training courses he is appointed to conduct.

7.2 FLIGHT ENGINEER INSTRUCTOR

Flight Engineer Instructors or FSI shall hold or have held a flight engineer licence and rating(s) related to the flying training courses they are appointed to conduct and shall be approved by Chairman.

7.3 GROUND SUBJECT INSTRUCTOR

The Ground Subjects training shall be conducted by a CAAB approved Ground instructor (ref. no. CAAB/52/01/73/FI/1419 dated: 23-11-2009).

8. GROUND SCHOOL AND EXAMINATIONS.

- 8.1 A TRTO submission must include a description of the TRTO's training accommodation and facilities which must be adequate and suitable for the training envisaged.
- 8.2 The responsibility under CAAB requirements to set, administer and correct all Technical & Type Technical Knowledge Examination papers for licencing purposes will be with CAAB. TRTO may be given to conduct such examination with prior approval of the Chairman.

9. TRAINING STANDARDS

The TRTO shall establish a system to ensure that the training centre operations and training are run efficiently and effectively. The quality system shall determine the effectiveness of TRTO policies, procedures, and training.

10. RECORDS

The Chief of Training shall ensure that adequate records are maintained for all approved training as per para 4 of Appendix 'A' to this ANO. The form and content of pilto's training records is to be specified in the training manual. A TRTO shall retain the training records for a period of at least 5 years.

11. TRAINING PROGRAMME

11.1 A training program shall be developed for each type of course offered. This programme shall include a breakdown of flying and ground training in either a week-by-week or a phased presentation, a list of standard exercises and a syllabus summary. In particular, synthetic flight training and theoretical knowledge instruction shall be phased in such a manner as to ensure that trainees shall be able to apply to flying exercises the knowledge gained on the ground. Arrangements should be made so that problems encountered in instruction can be resolved during subsequent flight training.

11.2 Flight training for type rating for multi-pilot aeroplanes in which a flight engineer is a part of the flight crew shall be conducted with a flight crew of three inclusive of a flight engineer.

11.3 TRAINING AEROPLANES / HELICOPTERS

Each aero plane/helicopter used for training must be equipped as required in the training specifications concerning the approved course in which it is used.

11.4 REQUIREMENTS FOR ENTRY TO TRAINING

The TRTO shall be responsible for ensuring that trainees meet at least the pre-requisite conditions for type rating training.

12. TRAINING MANUAL AND TRAINING CENTRE OPERATIONS MANUAL (TCOM)

12.1 A TRTO shall provide and maintain a Training Manual and Training Centre Operations Manual (TCOM) containing information and instructions to enable staff to perform their duties and to give guidance to trainees on how to comply with course requirements. The amendment procedure shall be stated and amendments properly controlled.

12.2 The TCOM shall provide relevant information to TRI/(E), synthetic flight instructors, ground instructors, trainees operations and maintenance staff. The TCOM will include TRTO's approval documentation and all aspects laid down in this ANO.

12.3 The training manual shall state the standards, objectives and training goal for each phase of training that the trainees are required to comply with, including entry requirements for each course, as applicable.

12.4 TRTO type rating course syllabi shall be approved by Chairman. Each type rating course syllabus should be checked against the Training and Skill Test requirements of Chairman.

12.5 The Training Manual shall include the following parts.

12.5.1 Part 1 The Training Plan

12.5.2 Part 2 Briefing and Air Exercises

12.5.3 Part 3 Synthetic Flight Training

12.5.4 Part 4 Theoretical Knowledge Instruction

- 12.6 Policies on Staff Training should be outlined in TCOM and not be included in the Training Manual as it is not relevant to the student. A Training Manual should not include flight exercise briefing material. Its primary purpose is to advise the student WHAT they will be doing and WHEN, rather than HOW. There should be a clearly defined Aim for each exercise directed at the student, not the instructor. “ To Teach ” is an instructor aim, “ to learn ” or “ to be able to ” are student aims. The purpose of the Skill Test is to determine if the aim has been achieved, the test should not form part of the aim. Exercise content should list the specific skill items that will be taught/ practiced during an exercise. Each exercise brief should have a concise statement of what standard the student should have achieved on completion of the exercise. This should be a measurable quantity against which the student may be judged.

13. SYNTHETIC TRAINING DEVICES

- 13.1 All Synthetic Training Devices when substituting for an aircraft are to be device qualified and user approved by the Chairman for all the exercises to be conducted.

14. APPLYING FOR THE ADDITION OF ZFTT TO AN EXISTING SIMULATOR USER APPROVAL

- 14.1 An operator or TRTO wishing to add ZFTT to the TRTO Course Approval must satisfy the requirements for inclusion in the manual. Concurrently the TRTO or operator must meet the Flight Safety & Regulation Directorate’s requirements for the qualifications of the instructors.
- 14.2 TRTO type rating course syllabuses may have been developed from manufacturer's courses and so may not editorially follow current OM format.

15. QUALITY SYSTEM

As a condition of approval, a TRTO requires a TRTO Quality System. Chief of Quality System shall have prior approval from Chairman, CAAB. The Quality System is intended to ensure that the TRTOs’ operations and training are conducted efficiently, effectively and in accordance with ANO. The integrated quality System must satisfy the Chairman before a TRTO approval can be granted.

16. FACILITIES

- 16.1 TRTO ACCOMMODATION; A suitable accommodation shall be provided to meet at least the following standards;
- 16.1.1 The TRTO accommodation for course approval shall be of a scale appropriate to the number of instructors and trainee pilots. All accommodation must be sited within permanent structures not shared with the general public.

- 16.1.2 All rooms are to be suitably equipped and furnished with provision for cooling/heating, light and ventilation and are not to be combined with any accommodation used continuously for the administrative staff.
- 16.1.3 Separate offices shall be provided to Chief of Training and instructors.
- 16.1.4 Enclosed briefing rooms and lecture rooms of adequate size relative to the maximum student capacity, each including a black or white board shall also be available. Temporary partitions and cubicles with walls that do not extend from the floor to ceiling are not suitable.
- 16.1.5 Training equipment shall be available for use in briefing rooms. The precise range of training equipment will depend upon the courses approved.
- 16.1.6 Operational publications and course documents are to be available in the flight operations accommodation.
- 16.1.7 A quiet room for self-study purposes should be available for students.
- 16.1.8 A separate machine room or rooms shall be provided where synthetic training devices are used.
- 16.1.9 Subject to local regulations emergency exits and evacuation routes, particularly in Simulator bays, should be clearly marked and kept free from obstruction whenever training is taking place.
- 16.1.10 Lavatory and washroom facilities are to be provided as well as facilities for rest and refreshment.

17. APPROVAL PROCEDURE OF TRTO LOCATED IN FOREIGN COUNTRY.

A Bangladeshi operator seeking approval of any TRTO in a foreign country is to meet the following requirements.

- 17.1 Shall submit the approval of the TRTO and its TRI/TRE & SFI/SFE by the local CAA before starting any crew training of the operator.
- 17.2 Shall submit a copy MOA between the operator and the TRTO (Financial part of the MOA may be omitted) to CAAB.
- 17.3 TRTO to keep the training records for a minimum period of three (03) years.
- 17.4 The operator shall provide the TRTO with updated copy of Training Manual, SOP, Normal, Abnormal and Emergency Checklist.
- 17.5 TRTO to maintain personal folder (when applicable) of all flight crew members in a manner that they contain successive training and performance reports of the flight crews in order to keep a good track record of their professional performance.

Note:1 CAAB Inspector will visit the TRTO time to time to check training standard facilities available and to evaluate individual flight crew training records.

Note:2 The Operator will ensure flight crew get adequate rest before starting a simulator training session specially keeping in mind the time zone crossed and jetlag involved.

Note:3 There should be a provision in the MOA that a copy of the training report is forwarded to the CAAB in a sealed envelope by the TRTO.

Chairman, Civil Aviation Authority, Bangladesh is placed to issue this order in pursuance of rule 4, 21A (29), (30), & rule 126 (3) of CAR 84.

ANO (OPS) A-7 requirements for approval of Type Rating Training Organization will come into effect on the approval of Chairman, CAAB.



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