



GOVERNMENT OF INDIA
OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION
TECHNICAL CENTRE, OPP SAFDURJUNG AIRPORT, NEW DELHI

CIVIL AVIATION REQUIREMENTS
SECTION 7 - FLIGHT CREW STANDARDS
TRAINING & LICENSING

SERIES 'I', PART IX

Date -----

EFFECTIVE: FORTHWITH

F. No. AV. 22024/01/2013-FSD

Subject : CRITERIA FOR APPROVAL OF SYNTHETIC FLIGHT INSTRUCTOR (HELICOPTERS)

1. INTRODUCTION

- 1.1 With the introduction of modern Flight Simulators, most of the training and Proficiency Checks of Flight Crew are now a days carried out on Flight Simulators. In order to ensure the standard of Proficiency of Flight Crew, the Training on Flight Simulators should be carried out by DGCA approved Synthetic Flight Instructors.
- 1.2 This CAR lays down the minimum requirements for the approval of Synthetic Flight Instructor (Helicopters) and is issued under the provisions of Rule 133 A of the Helicopter Rules 1937.

2. GENERAL REQUIREMENTS

- 2.1 The Pilot recommended for approval, as Synthetic Flight Instructor (SFI) shall have good knowledge and communication skill for imparting training. He shall be free from prejudice and strong likes and dislikes. He shall be capable of recording fair assessment and known for his impartiality. He should be capable of instilling high standard of discipline among the aircrew and shall have balanced attitude towards them.
- 2.2 The operators, before recommending the names of the pilots for such approvals, shall subject the Pilots to a process of selection, suitability tests and requisite training. While seeking approval of the DGCA, the Chief of Operations/Training shall furnish a statement showing Compliance of all

the requirements of this CAR and satisfactory completion of the stipulated Training in respect of each Pilot and certify that the Pilot is competent to exercise the privileges as given in this CAR. The minimum training requirements to be completed are given in **Appendix A**. The operator shall submit the complete training records in original to DGCA while seeking the approval.

- 2.3 The Pilot recommended for approval as SFI shall have consistently shown satisfactory proficiency, and :
- (a) should have obtained the pilot-in-command rating on the type in the first attempt,
 - (b) He should have accident-free record during the preceding ten years on any type of helicopter attributable to pilot's proficiency, and
 - (c) Should have a record free of any incident attributable to Pilot's Proficiency in handling the helicopter during the preceding three years.
- 2.4 The pilot recommended by the operator for approval as SFI shall have undergone the stipulated training and passed the Release Check before his name is forwarded to the DGCA for such approval. The Pilot who fails in the test should not be recommended for the approval for a period of two years.
- 2.5 The Pilot proposed for approval as SFI for the first time shall have been checked by a Flight Inspector of DGCA or an type SFI specifically nominated by DGCA for the purpose.
- 2.6 The SFI shall maintain his log book giving information regarding the training imparted by him, his own training and checks and the familiarisation simulator sessions undertaken.
- 2.7 In case adequate number of pilots meeting the requirements is not available with an Operator, the Director General may, at his discretion relax the requirements taking into consideration the past performance, flying record and the experience of the pilot proposed for approval by the Operator. The DGCA may also authorise, for a specified period, Examiner/Instructor Pilots or Pilots of equivalent status approved, as such, by any contracting State, to exercise the privileges of SFI as given in this

CAR.

- 2.8 Approval granted to a Pilot as SFI may be withdrawn by the DGCA subsequently if the pilot is found lacking in any of the requirements. Besides, a Board consisting of the Chief of Operations and Chief of Training of the Operator may also recommend to the DGCA, withdrawal of approval as SFI in respect of any Pilot giving adequate justification.

3. EXPERIENCE AND RECURRENT TRAINING REQUIREMENTS

- 3.1 An applicant for SFI approval should hold or have held CHPL/ ATPL (H) and Pilot-in-Command rating on the helicopter type for which the approval is sought. Pilots who are currently not flying because of having attained the maximum permissible age limit for Professional Pilots or being medically unfit to fly, or due to any other reason, but meeting all the other requirements of this CAR, can also be approved as SFI. Such pilots shall not have any ailment which may impair their ability to function as SFI.
- 3.2 The applicant shall have :
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| (a) | Total Flying Experience | - | 3500 hrs |
| (b) | Total PIC helicopters | - | 1500 hrs |
| (c) | Total Command experience on the type | - | 500 hrs |
- 3.3 A Pilot currently flying and a Functional Check Pilot on the type of helicopter may be approved as SFI after receiving the minimum training as specified in Appendix A .
- 3.4. A Pilot, who is currently not flying, but has been a Functional Examiner / Instructor/ Check Pilot on type or other type of helicopter in the same group shall undergo the following training, as applicable, before he can be granted approval to act as SFI :
- (a) If the Pilot has not exercised the Privileges of an Examiner / Flight Instructor/Check Pilot during the preceding period of more than six months but less than one year, he shall, in addition to minimum training specified in Appendix A :
- (i) Observe 04 Sessions of Simulator Training
- (ii) Carry out 02 Sessions of simulator training under supervision of an Instructor/ Examiner/ SFI on type

- (ii) Undergo a Proficiency Check on simulator by a DGCA Flight Inspector or an SFI nominated by DGCA, relating to the duties of SFI. Necessary entry in this regard shall be made in the log book of the SFI by the Pilot carrying out the Check
- (b) If the Pilot has not exercised the privileges of an Examiner / Flight Instructor/Check Pilot during the preceding period of more than one year, he shall, in addition to minimum training specified in Appendix A :
- (i) Undergo the extended Refresher Course on the applicable type of helicopter,
 - (ii) Observe 04 sessions of Simulator Training,
 - (iii) Carry out 04 sessions of Simulator Training under supervision of an Instructor/Examiner/SFI on type,
 - (iv) Undergo a Proficiency Check on Simulator by a DGCA Flight Inspector or an SFI specifically nominated by DGCA relating to the duties of SFI. Necessary entry in this regard shall be made in the log book of the SFI by the Pilot carrying out the Check.
- (c) If the Pilot has not been Functional Check Pilot/ Instructor on type of helicopter on which he is to be trained as Synthetic Flight Instructor (SFI) but has been Commander on type meeting the Flying Experience as in Para 3.2, he shall undergo Instructor Capsule to cultivate Training skills in addition to the training that will be required to train him suitably as SFI as specified in para 3.4 (b).
- (d) An Synthetic Flight Instructor on one type can be made Synthetic Flight Instructor on another type even if he does not meet type experience specified in para 3.2 provided he :
- (i) Has at least 50 hrs of experience as SFI
 - (ii). Undergoes the Type Rating Ground Classes and the Simulator portion of the Type Rating Course for that type and then trained to impart training on new type as per para 3.4(a)

4. VALIDITY OF THE SFI APPROVAL

The approval of SFI shall be valid, for a period not exceeding 5 years, so long as the Instructor continues to meet the applicable requirements of the CAR and remains in the employment of the Operator who has obtained the approval unless revoked/suspended by the DGCA. Besides, for continued validity of the approval, the SFI shall meet the following requirements :-

- (a) He should have conducted during the preceding 6 months at least one complete Simulator Training Profile Type Rating Training on the applicable type of helicopter OR a minimum of 6 Simulator Training Sessions.
- (b) If the SFI is not currently operating the type of helicopter, he should have undergone : -
 - (i) A Proficiency Check relating to duties of an SFI by a DGCA approved SFI on type every six months
 - (ii) Observed conduct of 02 sessions conducted by another DGCA approved SFI on type every 12 months.

5. RENEWAL OF THE LAPSED APPROVAL

If the approval of the Instructor has lapsed due to non-compliance of the requirements stipulated in para 4 above, for renewal of the approval, the applicant shall:

- (a) Comply with the requirements mentioned in para 3.4(a) if the Instructor has not exercised his privileges during the preceding period of more than six months but less than one year or
- (b) Comply with the requirements mentioned in para 3.4(b) if the Instructor has not exercised his privileges during the preceding period of more than one year.

6. PRIVILEGES OF SFI

The privileges of the SFI shall be to impart:

- a) Synthetic flight instructions on Flight Simulator for P2/PIC Training and Checking/Testing.
- b) Instrument Rating (IR) Training and Checking/Testing

- c) Recurrent / Recency Simulator Training.
- d) Line Oriented Flying Training (LOFT) and Checking on Simulator.
- e) Competency Checks as authorized on that type of Simulator
- f) SFI Training for another trainee SFI
- g) Ground Classes for Type rating and Recurrent training

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MINIMUM TRAINING FOR GRANT OF APPROVAL OF SFI

1. The following minimum Training shall be imparted before seeking approval for SFI :-
 - (a) 02 hours training on the type of Simulator for which SFI approval is being sought.
 - (b) Training to operate Instructor Operating Station/Console.
 - (c) Familiarisation with Training Manual of the Training Institution in which the SFI privileges are to be exercised
 - (d) Classes on Simulator specific aspects of Training