



GOVERNMENT OF INDIA

**OFFICE OF DIRECTOR GENERAL OF CIVIL AVIATION**  
TECHNICAL CENTRE, OPP. SAFDARJUNG AIRPORT, NEW DELHI

**CIVIL AVIATION REQUIREMENTS  
SECTION 7 – FLIGHT CREW STANDARDS  
TRAINING AND  
LICENSING SERIES ‘B’ PART XIX  
ISSUE I, 22<sup>ND</sup> MARCH 2012**

**EFFECTIVE: \_\_\_\_\_**

**File No: AV.22024/03/2016-FSD**

**Subject: Requirement for undergoing Endorsement Training on aeroplane used for Scheduled, Non-Scheduled and General Aviation Operations.**

**1. Purpose:**

- 1.1 Rule 41 of the Aeroplane Rules, 1937 requires applicants for licences and ratings to produce proof of having acquired the flying experience and having passed satisfactorily the test and examinations specified in Schedule II in respect of the licence or rating concerned.
- 1.2 In order to standardize and streamline the process, this Civil Aviation Requirement provides the basic guidelines for pilots to undertake endorsement training in various Type Rated Training Organization (TRTO) / Approved Training Organisation (ATO) Flying Training Organisation (FTO) for Scheduled, Non-Scheduled and General Aviation Operations.
- 1.3 The relevant Rules & CAR's shall be complied with for the issue of Licenses and Ratings.
- 1.4 This Civil Aviation Requirement has been issued under the provisions of Rule 133A of Aeroplane Rules 1937.
- 1.6 With the issuance of this CAR, the requirement of issuance of No Objection Certificate (NOC) by Flight Standards Directorate (FSD) of DGCA is hereby dispensed with.

**2. Applicability:**

- 2.1 The provisions of this CAR shall apply to all Indian Pilot Licence Holders for undertaking endorsement training in the TRTO/ ATO and FTO) of any ICAO Contracting state.
- 2.2 This CAR contains important information for both the applicant (trainee Pilot) as well as the TRTO/ ATO / FTO.
- 2.3 The Pilot Endorsement training syllabus is being issued to comply with the provisions of "CAR, Section 7, Series 'G', Part I, Issue I, Dated 27th July, 1999 - Requirements for issue of Indian Licences and aircraft ratings to pilots holding licences and aircraft ratings issued by contracting states" for issue of pilots' licenses
- 2.4 The pre-requisite or *requirements shall be met*, before undergoing the type training by both the Trainee Pilot and the Organization providing the Training.

**3. General Requirements:**

- 3.1 The Training Institute / facility and its simulators shall be approved for the purpose by the State Regulatory Authority of concerned ICAO Contracting State. Prior to commencement of training for an Indian Pilot Licence holder, the TRTO/ATO/FTO shall ensure that the training requirements are accomplished and required documents are submitted in accordance with the CAR to the Director of Training and Licensing, DGCA.
- 3.2 In case of any clarification is required the TRTO/ ATO / FTO may contact Chief Flight Operations Inspector, DGCA.
- 3.3 The medical of the trainee pilot need not be current and valid during the training and checks on simulators, however the medical must be current for skill test and all training / checks on aeroplane.
- 3.4 The trainee pilot shall pass either the DGCA technical / specific examination OR the TRTO/ ATO / FTO examination authorised by the regulatory authority of the relevant contracting state. The trainee pilot should have passed all requisite written examinations including Technical Examination on type before commencement of the flying training and that must be valid during entire training and checks.
- 3.5 Where training is done overseas, Ground and simulator training shall be completed in the same TRTO / ATO / FTO. If the trainee wishes to undertake ground training at a different TRTO / ATO / FTO, prior permission shall be obtained from the FSD. In such case the trainee shall pass the DGCA technical examinations.
- 3.6 General Flying Test (Day/Night) and IR/PPC Checks in respect of Jet

Aeroplanes above 1500 Kg (CA 40A(J) / CA 40B(J) / IR/PPC ) forms as applicable shall be used, which is available on the DGCA web site. ([www.dgca.nic.in](http://www.dgca.nic.in))

- 3.7 The final training checks / skill tests of the trainee pilot shall be carried out by an Examiner, other than those who had imparted the training.
- 3.8 Training and checks must be carried out with State Regulatory Authority approved Instructor(s) and Examiner(s) only
- 3.9 The training shall be conducted as per the syllabus stipulated in Appendix A or the TRTO/ATO/FTO syllabus (and practical test standards) whichever is more higher.

#### **4. Responsibility of Submission of documents for endorsement:**

- 4.1 The TRTO/ATO/FTO/ Employer /Operator shall submit the following documents in original under sealed envelope directly to the Directorate of Training and Licensing of this office (if training and checks carried out with an Operator/ FTO, the records, in original, may be forwarded by the Chief of Operations/ Chief of Training)
  - a. The sortie wise simulator training and tests records
  - b. The sortie wise aeroplane training and tests records,
  - c. The briefing / debriefing & comments of Instructors / Examiners.
- 4.2 The applicant shall submit the following documents to the Directorate of Training and Licensing of this office.
  - a. Proof of State Regulatory Authority approval of TRTO/ ATO / FTO.
  - b. Proof of State Regulatory Authority approval certificate for level 'C'/'D' Simulator (If training carried out on the simulator).
  - c. Documentary Proof of currency of the Instructorship / Examinership as instructor(s) / Examiner(s).
  - d. All other documents required in accordance with the Aeroplane Rules of 1937 and CAR for the purpose of endorsement.

5. The syllabus for various aeroplanes has been standardized. Appendix A describes the quantum of training applicable to different type of aeroplanes. The training applicable for different type of aeroplanes are enumerated below:

<b>Type A</b>	Commercial Jet Aeroplanes (Narrow body & Wide body) such as A 318/319/320/321/ 330/ 340/ 350/ 380 B 737-4/5/6/7/8/900, B747/ B757/ B777/ B787 etc Embraer 170 and above, CRJ etc
<b>Type B</b>	Turbo Prop Aeroplanes above 5700 Kg such as ATR, Q400, Dornier and other aircraft of similar type.
<b>Type C</b>	Other Jet Aircrafts which are not specified in Type A & B above such as Challenger, Gulf Stream, Bombardier, Global, Falcon, Citation, Phenom series and all other similar aircrafts.

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Director General of Civil Aviation**

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SI No.	Training / Check	Description of training / check	Quantum of training / check		
			Type A	Type B	Type C
1	Pre Qualification	Minimum hours on multi engine aeroplane * [Additional requirement for Airbus aircrafts (A318 and above)] : 25 hours of multi engine aircraft [10 hours can be completed in an approved simulator]	*	-	-
2	Jet Induction Training **	Class room training	12	-	12
		CBT / STD	20	-	20
	Ground Training	Ground Training must include a minimum of Aeroplane Systems Training, general operational subjects training, performance, CRM training, SEP training, Systems Inclusion / Integrated Training, Weight and Balance Training, Aeroplane Performance training and pre-flight inspection training. The ground training shall not be more than 8 hours in a day. There should not be any FFS simulator sessions during the ground training period. A 'home study' is not approved and no credit could be provided for the same.	72 hrs ***	72 hrs ***	54 hrs ***

3	Written Exam	A written exam shall be conducted by the TRTO / ATO / FTO on completion of Ground Training. The certified marked answer sheets and tests should be sent to the Directorate of Training and licensing of this office in a sealed cover directly by the training institute for scrutiny and record. (Not applicable in case the trainee has passed the DGCA technical / specific examinations)	<b>Minimum of 70 % pass marks (or higher if stipulated by TRTO / ATO / FTO)</b>		
4	Simulator Training	<p>Minimum number of FFS training sessions to be undertaken after successful completion of 2 and 3 above: <u>Note:</u></p> <ul style="list-style-type: none"> <li>• Each session shall be of at least 4 hours., of which 2 hours shall be as PF and 2 as PM.</li> <li>• Only one session shall be scheduled on any calendar day.</li> <li>• Sessions shall include circuits and landings.</li> <li>• Training objective of each session shall be achieved, trainee shall be given appropriate additional training till the minimum level of proficiency is achieved.</li> <li>• The records of each simulator with briefing and de-briefing remarks certified by the Instructor / Examiner shall be sent to the Directorate of Training and licensing of this office in a sealed cover directly by the training institute for scrutiny and record.</li> </ul>	<b>8</b>	<b>8</b>	<b>6</b>
5	LOFT	LOFT sessions of 2 hours as Pilot Flying (PF) on Level 'C'/'D' simulator.	<b>1</b>	<b>1</b>	<b>1</b>
7	Skill Test	After completion of the above, the trainee pilot should undergo the indicated sessions of skill test (CA 40 checks day/night) of duration of 2 hours, each with an examiner other than the one who imparted training. IR / PPC checks can be combined with skill test in accordance with CAR Section 8 Series F Part 2.	<b>2</b>	<b>2</b>	<b>2</b>
<b>License may be submitted for endorsement on successful completion of the above.</b>					
8	Other training	All other training such as AWO / LVO / ZFTT/ Base Training etc that are required as per the relevant CAR's shall be completed before exercising the privileges of			

		the rating. <i>Note: These training except Base Training may also be conducted before endorsement.</i>	<b>As required</b>
*	<b>See additional requirement for Airbus A-318 and higher series aircrafts.</b>		
**	<b>Not required for trainees who have adequate Jet experience. Not required for jet aircrafts of AUW less than 5700 Kg.</b>		
***	<b>Refer to paragraph 3.9</b>		