



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

1. Purpose:

- 1.1 Rule 41 of the Aeroplane Rules, 1937 requires applicants for licenses 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 license 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) 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.
- 1.5 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 License Holders for undertaking endorsement training in the TRTO/ ATO of any ICAO Contracting state.
- 2.2 This CAR contains important information for both the applicant (trainee Pilot) as well as the TRTO/ ATO.
- 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 Licenses and aircraft ratings to pilots holding licenses 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 License holder, the TRTO/ATO 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 may contact Chief Flight Operations Inspector, DGCA.
- 3.3 The license and 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 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. If the trainee wishes to undertake ground training at a different TRTO / ATO prior permission shall be obtained from DGCA (FSD) which will only be considered when ground training facilities do not exist in India. In such case the trainee shall pass the DGCA

technical examinations.

- 3.6 General Flying Test (Day/Night) and IR/PPC Check forms (CA 40/41) forms as applicable shall be used, which is available on the DGCA web site. (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/matrix syllabus (and practical test standards) whichever is higher.

4. Responsibility of Submission of documents for endorsement:

- 4.1 The TRTO/ATO /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/ATO, 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.
 - 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;

Type A	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
Type B	Turbo Prop Aeroplanes above 5700 Kg such as ATR, Q400, Dornier and other aircraft of similar type.
Type C	Other Jet Aircrafts which are not specified in Type A & B above such as Challenger, Gulf Stream, Global, Falcon, Citation, Phenom series and all other similar aircrafts.



(B. S. Bhullar)
Director General of Civil Aviation

SI No.	Training / Check	Description of training / check	Quantum of training / check		
			Type A	Type B	Type C
1	Pre-requisite 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/CBT	12	-	12
		FSTD (FTD minimum Level 5/FFS with or without motion)	20	#	20
3	Ground Training	Ground Training must include a minimum of Aeroplane Systems Training, general operational subjects training, performance, Safety and emergency equipment theoretical 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. Approved CBT or e-learning may be used.	72 hrs ***	72 hrs ***	54 hrs ***
	Written Exam	A written exam shall be conducted by the TRTO / ATO 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	Minimum of 70 % pass marks (or higher if stipulated by TRTO / ATO /		

		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)	FTO		
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"> • Each session shall be of at least 4 hours., of which 2 hours shall be as PF and 2 as PM. • Only one session shall be scheduled on any calendar day. • Sessions shall include circuits and landings. • Training objective of each session shall be achieved, trainee shall be given appropriate additional training till the minimum level of proficiency is achieved. • 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. 	8	8	6
5	LOFT	LOFT sessions of 2 hours as Pilot Flying (PF) on Level 'C'/D' simulator.	1	1	1
6	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 II.	1 day, 1 night	1 day, 1 night	1 day, 1 night
License may be submitted for endorsement on successful completion of the					

above.			
7	Other training	All other training such as Adverse Weather/ LVTO / ZFTT/ Base Training, CRM, SEP, DGR 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 skill tests.</i>	As required
<p>* See additional requirement for Airbus A-318 and higher series aircrafts.</p> <p>** Not required for trainees who have adequate Jet experience. Not required for jet aircrafts of AUW less than 5700 Kg.</p> <p>*** Refer to paragraph 3.9</p> <p># For Type B aeroplanes, MCC of 12 hours will be required</p>			