



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

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SUBJECT: Requirement for undergoing Endorsement Training on Single engine & Multi Engine Non - Jet aeroplanes with All Up Weight not exceeding 5700 kg.

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 existing process, this Civil Aviation Requirement provides the basic guidelines for pilots to undertake endorsement training on Single engine & Multi Engine Non-Jet aeroplanes with All Up Weight not exceeding 5700 Kg in various Type Rated Training Organization (TRTO) / Flying Training Organisation (FTO) / Approved Training Organisation (ATO) for all Indian License holders.
- 1.3 All 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 Licence holders for under taking endorsement training on the subject aeroplanes in the approved TRTO/ FTO / ATO of any ICAO Contracting State.
- 2.2 This CAR contains important information for both the applicant (trainee Pilot) as well as the TRTO/ FTO / 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 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 shall be approved for the purpose by the State Regulatory Authority of concerned ICAO Contracting State. Prior to commencement of training for an Indian Licence holder, the TRTO/ ATO/ FTO shall ensure that the training requirements are accomplished and after the completion of the training, the 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/FTO/ATO may contact the Chief Flight Operations Inspector, DGCA (CFOI).
- 3.3 The medical of the trainee pilot need not be current and valid during the entire training and checks on simulator. However medical must be current for skill test and training / checks on aeroplane.
- 3.4 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. 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 in a different TRTO / ATO / FTO, prior permission shall be obtained from the FSD. In such case the trainee shall pass the DGCA examinations.
- 3.5 General Flying Test (Day/Night) and IR Checks in respect of Aeroplanes above 1500 Kg (CA 40B / IR) forms as applicable shall be used which is available on the DGCA web site. (www.dgca.nic.in)

- 3.6 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.
- 3.7 Training and checks must be carried out with State Regulatory Authority (ICAO contracting state) approved Instructor(s) and Examiner(s) only.
- 3.8 Training and practical test standards shall be as per relevant ICAO contracting state syllabus, TRTO/ ATO/ FTO syllabus or (DGCA) approved syllabus whichever is more restrictive.

4. Responsibility of Submission of documents for endorsement:

- 4.1 The TRTO/FTO/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 through an operator, the records, in original, may be forwarded by the Chief of Operations/ Chief of Training of such operator).
 - 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.
 - d. TRTO /ATO/ FTO, simulator, instructor and examiner approvals.
 - e. All other documents required in accordance with Aircraft Rules, 1937 and the relevant CARs for the purpose of endorsement.
5. For a pilot to get his license endorsed on **Non-Jet Aeroplanes (Multi Engine & Single Engine and type variants) with AUW less than 5700 Kg**, he/she shall undergo the following training:-
 - 5.1 The trainee pilot shall undergo a Ground subject course of not less than 20 (Twenty) hours covering all aspects pertaining to Aeroplane, Engine, Systems as well as it safe operations/emergencies procedures. At the end of the Ground Course, there must be a written Examination, the institute, if considered necessary, may impart additional Ground Training to achieve the required Technical standards. Pass percentage of the same should not be less than 70% and copy of result sheet in original shall be submitted to Directorate of Training & Licensing. This course may not essential in case the trainee pilot has passed the DGCA Technical Examination on type.
 - 5.2 After Successful completion of Para (5.1) above, the trainee pilot shall undergo the following minimum training:

5.2.1 For Multi Engine non-jet aeroplanes:

Exercise		Duration (Hours)	
		Day	Night
A.	Familiarisation and normal flight procedures & maneuvers during all phases of flight including multi crew operation.	01:00 *	
	Circuit landing familiarization (Minimum 06 landings)	01:00	01:30
	Asymmetric handling and landing familiarization (Minimum 6 landings)	01:30	-
B.	Abnormal and emergency procedures & maneuvers in the event of failure (including simulated engine failure, incapacitation and upset recovery) and malfunction of equipment such as power plant, systems and airframe, stall & recovery	01:30 *	
C.	Holding and Instrument procedures, including instrument approaches, missed approach & landing procedures under abnormal & emergency condition. ** (Partial panel flying with instrument failure/ glide slope failure – if applicable)	01:30 *	
D.	General Flying Tests/Skill Test – VFR Flight (Day & Night) and IR (as applicable) Including 03 Takeoff & Landing for each day and night	01:00	01:00
Total		10:00	
* May be undertaken either day or night.			
** Not applicable in case the pilot is already instrument rated.			

5.2.2 For Single Engine non - jet aeroplanes

Exercise		Duration (Hours)	
		Day	Night
A.	Familiarisation and normal flight procedures and maneuvers	00:45	00:45

	during all phases of flight including normal circuit familiarisation and multi crew operation.		
B.	Abnormal and emergency procedure and maneuvers in the event of failure and malfunction of equipment such as power plant, systems and airframe, stall and recovery, incapacitation and upset recovery.	00:45	
C.	Holding and Instrument procedures, including instrument approaches, missed approach & landing procedures under normal, abnormal and emergency condition. **	01:30 *	
	(Partial panel flying with instrument failure / glide slope failure – if applicable)		
D.	General Flying Tests/Skill Test – VFR Flight (Day & Night) 03 Solo takeoff and landings each day and night.	01:00	01:00
Total		05:45	
* May be undertaken either day or night.			
** Not applicable in case the pilot is already instrument rated.			

5.2.3 For Single / Multi engine type variant aeroplanes:

Exercise		Duration (Hrs)	
		Day	Night
A.	Familiarisation and normal flight procedures & maneuvers during all phases of flight including normal circuit familiarisation and multi crew operation.	00:45	
B.	Holding and Instrument procedures, including instrument approaches, missed approach & landing procedures under normal, abnormal & emergency condition (and simulated engine failure	00:45	

	for multi engine aeroplanes/s, crew incapacitation & upset recovery etc) **		
C.	General Flying Test/Skill Test – VFR Flight (Day & Night) 03 Solo Takeoff & Landings for each day & night.	00:45	00:45
	IR	00:30	00:30
Total		04:00	
* May be undertaken either day or night.			
** Not applicable in case the pilot is already instrument rated in single / multi engine (or) if the trainee pilot does not require Instrument Rating.			

- DGCA India Performa / format shall be used.

If Instrument Rating (IR) is required, then Instrument Rating Test (Minimum 2 approaches with 2 different Instrument facilities) of minimum 45 minutes to be carried out in addition to the above flying hours.

6. Logging of flight time:

6.1 Training and tests on aeroplane

Flight time of trainee pilot shall be entered in his/her logbook in the following manner:

#	Training and Test (Skill and IR)	Log Book entry
1	Training with Instructor	Dual
2	Training – Solo flying (as sole occupant without instructor)	PIC
3	Skill test with examiner	P1 (U/S) <i>(If P1(U/S) Column is not available in the log book, log as PIC and mention "Skill Test P1(U/S)" in the remarks column.)</i>
Instrument Rating (IR) Training and Test on aeroplane		
4	Instrument Rating training	Dual

	with instructor	Instrument time to be logged under ' Simulated '
5	Instrument Rating test with examiner	<p>P1 (U/S)</p> <p><i>(If P1(U/S) Column is not available in the log book, log as PIC and mention "Skill Test P1(U/S)" in the remarks column.)</i></p> <p>Instrument time to be logged under 'Simulated'</p>

6.2 Instrument Rating (I R) Training and Test on Simulator

Flight ground time of trainee pilot shall be entered in his/her log book at an appropriate location.

Director General of Civil Aviation