



GOVERNMENT OF INDIA

**OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION**  
TECHNICAL CENTRE, OPP. SAFDARJUNG AIRPORT, NEW DELHI-110 003

**CIVIL AVIATION REQUIREMENTS**  
**SECTION 7 – FLIGHT CREW STANDARDS**  
**TRAINING AND LICENCING**

**SERIES 'O' PART I**  
**ISSUE I, 20<sup>th</sup> JULY 2010**

**EFFECTIVE: FORTHWITH**

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**Subject: Flying More Than One Type Of Aeroplane (Fixed Wing Aircraft) – Scheduled, Non-scheduled and General Aviation Operations.**

**1. INTRODUCTION**

Rule 6 of the Aircraft Rules, 1937 stipulates that every aircraft shall carry and be operated by the personnel licensed in accordance with Part V and Schedule II of the Aircraft Rules 1937. Further, Rule 6A stipulates that no person shall fly as pilot of an aircraft which is not included or entered in the aircraft rating of the licence.

This CAR lays down the conditions for securing the safety for aircraft operations and is issued in exercise of the powers conferred by Section 5A of the Aircraft Act, 1934 and Rule 133A of the Aircraft Rules 1937 for compliance by all concerned operators and holders of pilot license.

This CAR is applicable to operators engaged in Scheduled, Non-Scheduled and General Aviation Operations.

With issuance of this CAR, AIC 2 of 2000 hereby stands cancelled.

**2. SCHEDULED OPERATORS**

2.1 No operator engaged in Scheduled Public Transport Operations for carriage of passengers or cargo shall permit its flight crew to operate, and no flight

crew engaged in such flight operations shall operate, more than one type of aeroplane except that a DGCA approved Examiner during currency of his approval may operate not more than two types of aeroplanes, on which he has valid ratings provided that no two types of aeroplanes are flown on the same duty cycle. Such operation of more than one type, by DGCA approved Examiner/s of scheduled operators, shall be done on a case to case basis, and shall not be applied as general rule. Approved variants may be operated as per conditions given at para 4 of this CAR. Approval for Cross-Crew Qualification (CCQ), Mixed Fleet Flying (MFF) and Cross-Instructor Qualification (CIQ) will continue to be treated on a case to case basis after due examination at the Flight Standards Directorate.

**3. NON-SCHEDULED AND GENERAL AVIATION OPERATORS**

- 3.1 No operator engaged in non-scheduled and general aviation operations shall permit its flight crew to operate, and no flight crew engaged in such flight operations shall operate more than one type of aeroplane in same duty cycle (duty period).
- 3.2 An operator may be permitted to allow its flight crew to operate two types of aeroplanes provided these are operated in separate duty cycles.

**4. APPROVED VARIANTS – ALL OPERATORS**

- 4.1 Approved variants may be permitted for operations in the same duty cycle, with DGCA specified conditions in a graded program. List of approved family/ type variants is placed at Appendix 'A' to this CAR. The list in the Appendix shall be updated regularly as new / different models of aeroplanes are approved / added to the Indian Aircraft Register. Aeroplanes not listed therein shall be considered to be of different types.
- 4.2 Whilst seeking operations approval of more than one type or variant, an operator shall ensure that the differences and/or similarities of the aeroplanes concerned justify such operations, taking into account the following:
- a. The level of technology;
  - b. Operational procedures;
  - c. Handling characteristics.

**5. PILOT TRAINING AND PROFICIENCY:**

**a. Training:**

- i. The operators/ owners of aeroplanes as specified per para 3 of this CAR shall ensure that pilots before undertaking operations involving two types of aeroplanes undergo a type-rating course, duly approved by DGCA (Flight Standards Directorate) for the type of aeroplane to be operated. DGCA may permit pilots to be current for

operation of a maximum of two (2) types of aeroplanes, excluding variants.

- ii. The pilots shall, from time to time, undergo recurrent training duly approved by DGCA (Flight Standards Directorate).
  - iii. No cross training credits shall be provided for the aeroplane type rating course, unless specifically approved in writing by DGCA.
- b. **Proficiency Checks:** The pilots shall undergo 12 Monthly Pilot Proficiency Checks which shall be carried out separately for both types of aeroplane, without any credits for the other rated type. The pilot shall ensure that proficiency checks for both rated types are kept current before undertaking such operations.
- c. **Instrument Rating:** To operate under IFR conditions, the licence holder shall be holder of Instrument Rating relevant to the type of aeroplane in accordance with Schedule II of the Aircraft Rules, 1937.
- d. **Licensing Procedures:** The licences of the pilots shall be endorsed with the type of aeroplanes / series as listed in the Appendix A.

6. **GENERAL REQUIREMENTS:**

- 6.1 Before engaging their pilots to operate more than one type of aeroplanes, General Aviation and Non-Scheduled Operators shall seek approval from DGCA (Flight Standards Directorate).
- 6.2 The operators shall file quarterly reports of operations approved under para 6.1, providing the pilot names, type of aeroplanes flown, flight details to DGCA (Flight Standards Directorate), for a period of two years, from the grant of such approval. Failure to file the above reports may lead to cancellation of the approval to operate more than one type for the Operator as well as the Pilot(s) concerned.
- 6.3 All queries with respect to this CAR may be addressed to the CFOI, Flight Standards Directorate, DGCA, Opp. Safdarjang Airport, New Delhi, 110 003.

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**Appendix 'A'**

**FAMILY & VARIANT MODELS – FIXED WING AEROPLANES**

<b><u>PISTON ENGINE (MTOW UPTO 5700KG)</u></b>					
<b>Sl. No.</b>	<b>Manufacturer</b>	<b>Aeroplanes</b>		<b>Training (If Any)</b>	<b>Licence Endorsement</b>
1.	All manufacturers	Single-engine piston (land)		D	SEP (Land)
		Single-engine piston (land) with Variable pitch propellers (VP)			
		Single-engine piston(land) with Retractable undercarriage (RU)			
		Single-engine piston (land) with Turbo/super charged engines (T)			
		Single-engine piston (land) with Cabin pressurisation (P)			
		Single-engine piston (land) with Tail Wheels (TW)			
		Single-engine piston (land) with Electronic Flight Instrument (EFIS)			
		Single-engine piston (land) with single lever power control (SLPC)			
		Single-engine piston (sea)		D	SEP (Sea)
		Single-engine piston (sea) with Variable pitch propellers (VP)			
		Single-engine piston (sea) with Turbo/super charged engines(T)			
		Single-engine piston (sea) with Cabin pressurisation (P)			
		Single-engine piston (sea) with Electronic Flight Instrument System (EFIS)			
		Single-engine piston (sea) with Single lever power control(SLPC)			
2.	All manufacturers	Multi-engine piston (land)		D	MEP (Land)
		Multi-engine piston (sea)		D	MEP (Sea)

<b><u>TURBINE ENGINE</u></b>					
<b>Sl. No.</b>	<b>Manufacturer</b>	<b>Aeroplanes</b>		<b>Training (If Any)</b>	<b>Licence Endorsement</b>
		<b>Model</b>	<b>Name</b>		
1.	Cessna	525	CJ	HPA D	C525
		525	CJ1		
		525A	CJ2		
		525	CJ1 Plus		
2.	Airbus	A320	A-318	D	A-320
			A-319		
			A-320		
			A-321		
			ACJ		

<b>TURBINE ENGINE</b>					
<b>Sl. No.</b>	<b>Manufacturer</b>	<b>Aeroplanes</b>		<b>Training (If Any)</b>	<b>Licence Endorsement</b>
		<b>Model</b>	<b>Name</b>		
3.	Airbus	A300	-B1 -B2 series -B4 series -C4-200 series -F4-200 series		A-300
4.	Airbus	A310	-200 series -300 series		A-310/300-600
		A300	- B4 600 series - C4 600 series - F4 600 series		
5.	Airbus	A-330	-300 Series -200 Series		A330
6.	Airbus	A-340	-200 Series -300 Series -400 Series -500 Series -600 Series		A340
7.	ATR	ATR-42	Non PEC Equipped	D	ATR-42/72
		ATR-42 ATR-72	PEC Equipped PEC Equipped		
8.	Beechcraft	90 series	C90	HPA	BE90/200
		200 series	B200	D	
9.	Beechcraft		300 Series	HPA	BE300/1900
			1900 Series	D	
10.	Boeing	B737	-100 - 200		B737 100-200
11.	Boeing	B737	- 300 series - 400 series - 500 series	D	B737 300-900
			- 700 series - 800 series - 900 series		
12.	Boeing	B747	-100 series -200 series -300 series	D	B747 100-300
		B747-SP			
13.	Boeing	B-757	-200 Series -300 Series	D	B757/767
		B-767	-200 Series -300 Series		
		B-767	-400 ER1		
14.	Boeing	B777	-200 Series -300 Series		B777
		B777F			
15.	Bombardier	BD700-1A10 BD700-1A11	Global Express Global Express 5000		BD700
16.	Bombardier	CL600-2816	CL604 CL605	D	CL604/605
		CL600-2819	CRJ -100 -200		

<b>TURBINE ENGINE</b>					
<b>Sl. No.</b>	<b>Manufacturer</b>	<b>Aeroplanes</b>		<b>Training (If Any)</b>	<b>Licence Endorsement</b>
		<b>Model</b>	<b>Name</b>		
		CL600-2C10	-700	D	CRJ100
		CL600-2D15	-701		
		CL600-2D24	-702		
			-705 -900		
17.	Bombardier (Challenger Series)	CL600 CL601-1A CL601-3A			CL600/601
18.	Cessna		C560XL C560XLS C560XLS+	D	C560XL/XLS
19.	Cessna	C650 Citation III Citation VI Citation VII			C650
20.	Cessna	C500 C550 CS 550 CS 550 Bravo C560 Encore		D	C500/550/560
21.	Dassault		Falcon 900 EX EASy Falcon 900 DX		Falcon900EX EASy
22.	Dassault		Falcon 2000 Falcon 2000 EX	D	Falcon2000/2000EX
23.	Dassault		Falcon 2000 EX EASy Falcon 2000 DX Falcon 2000 LX		Falcon2000EX EASy
24	Embraer	ERJ 170-100 ERJ 170-200 ERJ 190-100 ERJ 190-200	Embraer 170 Embraer 175 Embraer 190 Embraer 195		EMB170
25.	Grumman Gulfstream	Gulfstream 1159C Gulfstream IV SP	Gulfstream IV G300/G400	D	Gulfstream IV
		Gulfstream IV-X	G350/G450		G-V
		Gulfstream V			
		Gulfstream V-SP	G500/G550		
26.	Hawker Siddley Bae Raytheon	Hawker 125 Series	Hawker 800XP Proline 21 Hawker 750 Proline 21	D	HS125

<b><u>TURBINE ENGINE</u></b>					
<b>Sl. No.</b>	<b>Manufacturer</b>	<b>Aeroplanes</b>		<b>Training (If Any)</b>	<b>Licence Endorsement</b>
		<b>Model</b>	<b>Name</b>		
	Hawker Beechcraft		Hawker 900 XP Proline 21 and IFIS 5000 @ Hawker 850 XP Proline 21 and IFIS 5000 @		
		@ The D is valid when the aeroplanes are equipped with an EFB software package. When the software is not installed –level B- training is sufficient			

Notes:-

- D Differences Course Required, as Approved by DGCA, for the aeroplane models separated by a horizontal line e.g. Differences Training required between B737- /3/4/500 & B-737-7/8/900 etc.
- SEP Single Engine Piston
- MEP Multi Engine Piston
- HPA High Performance Aircraft – Recurrent Training as Per CAR Series 'O' regarding Proficiency Checks, Instrument Rating Check and Recurrent Training – Aeroplanes
- Level B Handout / CBT / Objective Test – Oral / Written
- PEC Propeller Electronic Control