

ภาคผนวก ๑

การบันทึกศักยภาพทำการตามชั้น (Class Rating) และแบบอากาศยาน (Type Rating) สำหรับใบอนุญาตนักบิน

๑. เครื่องบิน (Aeroplane)

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
All manufacturers	All powered sailplanes having an integrally mounted, non-retractable engine and a non-retractable propeller, capable of taking off and climbing under its own power.	TMG	X	—	SP	-	Class rating TMG Aircraft within the class rating touring motor glider (TMG) are not listed individually in this table unless specific provisions have been established.
All manufacturers	Single-engine piston (land)	SEP (land)	X	—	SP	-	Class rating SEP (land) Aircraft within the class rating SEP (land) are not listed individually in this table unless specific provisions have been established.
	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 system (EFIS)						
	Single-engine piston (land) with single lever power control (SLPC)						
SEP (land) aeroplane with another type of engine							
All manufacturers	Single-engine piston (sea)	SEP (sea)	X	—	SP	-	Class rating SEP (sea) Aircraft within the class rating SEP (sea) are not listed individually in this table unless specific provisions have been established.
	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)						
	SEP (sea) aeroplane with another type of engine						
All manufacturers	Single-engine turbo-prop engines (land)	SET (land)	X	(*)	(*)	-	Class rating SET (land) Aircraft within the class rating SET (land) are not listed individually in this table unless specific

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
							<p>provisions have been established.</p> <p>All aircraft within the same class rating SET require differences training, unless indicated otherwise in the ADDITIONAL INFORMATION NOTE.</p> <p>(*) Refer to ADDITIONAL INFORMATION NOTE.</p>
All manufacturers	Single-engine turbo-prop engines (sea)	SET (sea)	X	(*)	(*)	-	<p>Class rating SET (sea)</p> <p>Aircraft within the class rating SET (sea) are not listed individually in this table unless specific provisions have been established.</p> <p>All aircraft within the same class rating SET require differences training, unless indicated otherwise in the ADDITIONAL INFORMATION NOTE</p> <p>(*) Refer to ADDITIONAL INFORMATION NOTE</p>
All manufacturers	<p>Multi-engine piston (land)</p> <p>Multi engine piston (land) with electronic flight instrument system (EFIS)</p>	MEP (land)	X	—	SP	-	<p>Class rating MEP (land)</p> <p>Aircraft within the class rating MEP (land) are not listed individually in this table unless specific provisions have been established.</p> <p>All aircraft within the same class rating MEP require differences training, unless indicated otherwise in the list.</p>
All manufacturers	<p>Multi-engine piston (sea)</p> <p>Multi engine piston (sea) with electronic flight instrument system (EFIS)</p>	MEP (sea)	X	—	SP	-	<p>Class rating MEP (sea)</p> <p>Aircraft within the class rating MEP (sea) are not listed individually in this table unless specific provisions have been established.</p> <p>All aircraft within the same class rating MEP require differences training, unless indicated otherwise in the list.</p>

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Airbus	A300 -B1 -B2 series -B4 series -C4-200 series -F4-200 series	A300	X	X	MP	X	
Airbus	A300 - FFCC	A300FFCC	—	X	MP	—	
Airbus	A310 - 200 series - 300 series A300 - B4 600 series - C4 600 series - F4 600 series	A310/300-600	X	X	MP	—	
Airbus	A300 - 600ST (Beluga)	A300-600ST	—	X	MP	—	
Airbus	A318 - 100 series A319 - 100 series A320 - 100 series - 200 series - neo A321 - 100 series - 200 series - 200PCF (with Precision STC) - neo	A320	X	X	MP	X	
Airbus	A330 - 300 series - 200 series - 200 F - 200 MRTT FAF STC - 900 series - 800 series A330 - 700L A350 - 900 series -1000 series	A330/350	X	X	MP	X	
Airbus	A340 - 200 series - 300 series - 500 series - 600 series	A340	X	X	MP	X	
Airbus	A380 - 800 series	A380	—	X	MP	X	
Airbus DS S.A.	A400M	A400M	—	X	MP	—	
Airbus Canada Limited Partnership (ACLP)	BD500-1A10 (A220-100) BD500-1A11 (A220-300)	BD-500	X	X	MP	X	
Antonov	An-26	AN26	X	X	MP	—	
ATR	ATR 42 (not PEC equipped) - 42-200 / -300 / -320	ATR42/72	X	X	MP	X	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
	ATR 42 (PEC equipped) - 42-400 / -500 ATR 72 (not PEC equipped) - 72-101 / -102 / -201 / -202 / -211 / -212 ATR 72 (PEC equipped) - 72-101 / -102 / -201 / -202 (with mod 4371) - 72-211 / -212 (with mod 3973 or 4371) ATR 42 (glass cockpit or 42-600) - 42-500 (with mod 5948) ATR 72 (glass cockpit or 72-600) - 72-212A (with mod 5948)						
BAE Systems (Operations) Ltd	HS 748 series	HS748	—	X	MP	—	
BAE Systems (Operations) Ltd	Jetstream 41	Jetstream 41	—	X	MP	—	
BAE Systems (Operations) Ltd	Jetstream -3100 series -3200 series	Jetstream 31/32	X	X	MP	—	
Beechcraft Raytheon	RA-390	RA390	—	X	SP HPA	—	
Beriev	Be-200ES-E	BER2E	—	X	MP	—	
Boeing	B707 -100 series -300 series B720	B707/720	X	X	MP	—	
Boeing	B717 series	B717	—	X	MP	—	
Boeing	B727 -100 series -200 series	B727	X	X	MP	—	
Boeing	B737 -100 series -200 series	B737 100-200	X	X	MP	—	
Boeing	B737 CL -300 / -400 / -500 Series B737 NG -600 / -700 / -800 / -900 / -900 ER Series B737 MAX -8 / -8200/-9 Series	B737 300-900	X	X	MP	X	
Boeing	B747 -100 series B747 -200 series B747 -300 series B747-SP	B747 100-300	X	X	MP	—	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Boeing	B747 - 400 series - 400 F series	B747-400	X	X	MP	X	
	B747 - 8 series - 8F series						
Boeing	B757 - 200 series - 300 series	B757/767	X	X	MP	X	
	B767 - 200 series - 300 series - 300 F series						
	B767 -400 ER						
Boeing	B777 - 200 series - 300 series B777F	B777/787	X	X	MP	X	
	B787 - 8 series - 9 series -10 series						
Bombardier Inc.	CL 215	CL 215	—	X	MP	—	
Bombardier Inc.	CL 215T	CL 215T	—	X	MP	—	
Bombardier Inc.	CL 415	CL415	—	X	MP	—	
Bombardier Inc.	Challenger series: CL 600 CL 601-1A CL 601-3A	CL600/601	X	X	MP	—	
Bombardier Inc.	CL-600-2B16 - Challenger 604	CL604/605	X	X	MP	X	
	CL-600-2B16 - Challenger 605 - Challenger 650						
Bombardier Inc.	CL600-2B19 CL 65 Regional Jet series CRJ - 100 - 200 - 440 - Challenger 850	CL65	X	X	MP	X	
	CL600-2C10 - 700 - 701 - 702 - Challenger 870						
	CL600-2D15 - 705 CL600-2D24 - 900 - Challenger 890						
	CL600-2E25 - 1000						
Bombardier Inc.	BD-100-1A10 - Challenger 300 - Challenger 350	CL30	X	X	MP	X	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Bombardier Inc.	BD700-1A10 (Global Express XRS) BD700-1A11 (Global 5000)	BD-700	X	X	MP	X	
	BD700-1A10 GVFD (Global 6000) BD700-1A11 GVFD (Global 5000 GVFD)						
	BD-700-1A10 (Global 6500) BD-700-1A11 (Global 5500)						
Bombardier Inc.	BD700-2A12 (Global 7500)	G7500		X	MP	X	
Bombardier Inc.	DHC8 -100 series -200 series -300 series	DHC8	X	X	MP	X	
	DHC8 -400 series						
British Aerospace / AVRO	ATP Jetstream 61	Bae/ATP/ Jetstream 61	—	X	MP	—	
British Aerospace / AVRO	AVRO RJ series 146 -100 series 146 -200 series 146 -300 series	AVRORJ/Bae146	X	X	MP	—	
British Aerospace / AVRO	BAC 1-11 -200 series -400 series -500 series	BAC1-11	X	X	MP	—	
Britten-Norman Aircraft LTD	BN2T Turbine Islander BN2T - 4R MSSA BN2T - 4S Defender	BN2T	X	X	SP	—	
Casa	C212 series	C212	—	X	MP	—	
Casa	C-295	C295	—	X	MP	—	
Casa	CN-235	CN235	—	X	MP	—	
Cirrus Aircraft Company	SF50 Vision Jet	SF50	—	X	SP HPA	X	
Dassault	Falcon 10	Falcon 10/100	X	X	MP	—	
	Falcon 100						
Dassault	Falcon 20 series	Falcon 20/200	X	X	MP	—	
	Falcon 200						
Dassault	Falcon 900 EX EASy Falcon 900 DX Falcon 900 LX	Falcon 900EX EASy	X	X	MP	X	
	Falcon 900EX EASyII Falcon 900DX EASyII Falcon 900LX EASyII						

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Dassault	Falcon 2000	Falcon 2000/2000EX	X	X	MP	X	
	Falcon 2000 EX						
Dassault	Falcon 2000 EX EASy Falcon 2000 DX Falcon 2000 LX	Falcon 2000EX EASy	X	X	MP	X	
	Falcon 2000EX EASy II Falcon 2000DX EASy II Falcon 2000LX EASy II Falcon 2000LXS Falcon 2000S						
Dassault	Falcon 7X Falcon 8X	Falcon 7X	X	X	MP	X	
Dassault	Falcon 6X	Falcon 6X	—	X	MP	X	
Dassault	Mystere Falcon 50	Falcon 50/900	X	X	MP	X	
	Falcon 50EX						
	Mystere Falcon 900						
	Falcon 900C						
	Falcon 900EX						
Dornier	DO 128-6	D128	—	X	SP	—	
Dornier	DO 28-G92	D28-G92	—	X	SP	—	
Dornier 328 SUPPORT SERVICES GMBH	DO 328-100	DO 328-100	—	X	MP	—	
Dornier 328 SUPPORT SERVICES GMBH	DO 328-300	DO 328-300	—	X	MP	—	
Eclipse Aerospace	Eclipse EA500 - Eclipse 500 - Eclipse 550	EA500	—	X	SP HPA	X	
Embraer (Yabora Industria Aeronautica)	Bandeirante EMB 110	EMB110	—	X	SP	—	
Embraer (Yabora Industria Aeronautica)	EMB 120 Brasilia	EMB 120	—	X	MP	—	
Embraer (Yabora Industria Aeronautica)	EMB - 145 -135, 145 series	EMB 135/145	X	X	MP	X	
	EMB - 145 -135,145 series equipped with Autothrottle						
Embraer (Yabora Industria Aeronautica)	EMB-500 (Phenom 100)	EMB 500/505	X	X	SP HPA	X	
	EMB-505 (Phenom 300)						

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Embraer (Yabora Industria Aeronautica)	EMB-550 (Legacy 500) EMB-550 (Praetor 600) EMB-545 (Legacy 450) EMB-545 (Praetor 500)	EMB 550	—	X	MP	X	
Embraer (Yabora Industria Aeronautica)	ERJ 170-100 / Embraer 170 ERJ 170-200 / Embraer 175 ERJ 190-100 / Embraer 190 ERJ 190-100 ECJ / Lineage 1000 ERJ 190-200 / Embraer 195 ERJ 190-300 / Embraer 190 E2 ERJ 190-400 /Embraer 195 E2	EMB170	X	X	MP	X	
Fokker Services B.V	FH227 F 27A/F/J F 27 series	F27	X	X	MP	—	
Fokker Services B.V	F 28 series	F 28	—	X	MP	—	
Fokker Services B.V	F28 Mark 50	F 50	—	X	MP	—	
Fokker Services B.V	F28 Mark 70 F28 Mark 100	F70/100	X	X	MP	—	
Gulfstream Aerospace Corporation	Grumman G-159	Gulfstream I	—	X	MP	—	
Gulfstream Aerospace Corporation	Grumman G-1159 Grumman G-1159A	GulfstreamII/III	X	X	MP	—	
Gulfstream Aerospace Corporation	Gulfstream 1159C (Gulfstream IV) Gulfstream IV SP (G300/G400)	GIV	—	X	MP	X	
Gulfstream Aerospace Corporation	Gulfstream IV-X (G350/G450) Gulfstream V Gulfstream V-SP (G500/G550)	G-V	X	X	MP	X	
Gulfstream Aerospace Corporation	Gulfstream GVI (G650) Gulfstream GVI (G650) - with PlaneView II Avionics Software Version "Block Point I" (ASC 901) - G650ER -	GVI	X	X	MP	X	
Gulfstream Aerospace Corporation	Gulfstream G VII-G500 (G500) Gulfstream G VII-G600 (G600)	GVII	X	X	MP	X	
Gulfstream Aerospace Corporation	Gulfstream G VIII-G700 (G700) Gulfstream G VIII-G800 (G800)	GVIII	—	X	MP	X	
Gulfstream Aerospace LP (GALP)	IAI -1125 Astra	IAI1125	—	X	MP	—	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Gulfstream Aerospace LP (GALP)	Gulfstream G150 (G150)	G150	—	X	MP	X	
Gulfstream Aerospace LP (GALP)	Gulfstream G200 (G200)	G200	—	X	MP	X	
Gulfstream Aerospace LP (GALP)	Gulfstream G280 (G280)	G280	—	X	MP	X	
Honda Aircraft Company	HA-420 (HondaJet)	HA-420	X	X	SP HPA	X	
	HA-420 (HondaJet Elite)						
IRKUT Corporation	RRJ-95B (Superjet 100)	RRJ95	—	X	MP	X	
Israel Aerospace Industries	IAI -1121 Jetcommander -1123 Commodore Jet -1124 Westwind	IAI1121/23/24	X	X	MP	—	
Learjet Inc.	Learjet -20 series	Learjet20/30	X	X	MP	—	
	-30 series						
Learjet Inc.	45 (Learjet 40 series, LR-40) 45 (Learjet 45 series, LR-45)	Learjet45/75	X	X	MP	X	
	75 (Learjet 70 series, LR-70) 75 (Learjet 75 series, LR-75)						
Learjet Inc.	Learjet -55 series	Learjet55	—	X	MP	—	
Learjet Inc.	Model 60 (Learjet 60 series)	Learjet60	X	X	MP	X	
	LJ 60XR (Learjet-60 XR)						
(Let) Aircraft Industries, a.s	L-410 M Turbolet L-410 UVP – Turbolet L-410 UVP-E L 410 UVP-E9 L 410 UVP-LW L 410 UVP-E-LW L 410 UVP-E20 L 410 UVP-E20 CARGO L-420 L410 NG	L-410	—	X	MP	X	
Lockheed Martin Corporation	L188 Electra series A	L188 Electra	X	X	MP	—	
	L188 Electra series C						
Lockheed Martin Corporation	L382 G (C 130)	Hercules	—	X	MP	—	
Lockheed Martin Corporation	L1011 Series	L1011	—	X	MP	—	
Lockheed Martin Corporation	L1329	Jetstar	—	X	MP	—	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
McDonnell Douglas / Boeing	DC8 -33 -50, 60, 70 series	DC8	X	X	MP	—	
McDonnell Douglas / Boeing	DC9 10-50 series	DC9 10-50	—	X	MP	—	
McDonnell Douglas / Boeing	DC9 80 series	DC9 80/MD88/ MD90	X	X	MP	—	
	MD 88 series MD 90 series						
McDonnell Douglas / Boeing	DC 10 series	DC 10	—	X	MP	—	
McDonnell Douglas / Boeing	MD 11	MD 11	—	X	MP	—	
Mitsubishi Heavy Industries	MU 2B series	MU2B	—	X	SP HPA	—	
Nomad TC PTY LTD	Nomad -22B -24A	AstaMET	X	X	SP	—	
Piaggio Aero Industries S.p.A.	P166	Piaggio 166	—	X	SP	—	
Piaggio Aero Industries S.p.A.	P180 Avanti	Piaggio 180	X	X	SP HPA	X	
	P180 Avanti II						
	P180 Avanti EVO						
Pilatus Aircraft Ltd.	PC-24	PC-24	X	X	SP HPA	X	
	PC-24 TF						
	PC-24 AYT						
	PC -24 AYT/TF						
Piper Aircraft, Inc.	PA-31T series (Cheyenne, Cheyenne II, Cheyenne IIXL)	PA31T/42	X	X	SP HPA	—	
	PA-42 series (Cheyenne III, Cheyenne IV)						
PT Dirgantara Indonesia	IPTN CN 235-110	IPTNCN 235	—	X	MP	—	
PZL (Polskie Zakłady Lotnicze)	M28 - 02-W - 05	PZL-M28	X	X	MP	X	
Rockwell-Twin Commander Aircraft L.L.C	AC 680T AC 690 series AC 900 series	Rockwell MET	X	X	SP HPA	—	
RUAG Aerospace Services GmbH	Dornier 228: 228-100 228-200 228-101 228-201 228-202 228-212	D228	X	X	SP	X	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
	Dornier 228: 228-212 NG						For training, operational and licensing aspects, aircraft equipped with cockpit upgrade CN-228-247 (EASA Approval 10031465) and EASA STC 10061450R1-MCH3 shall be considered as 228-212 NG Aircraft.
Saab Aktiebolag	SAAB SF340 series	SAAB340	—	X	MP	—	
Saab Aktiebolag	SAAB 2000	SAAB2000	—	X	MP	—	
Short (Bombardier)	SC7 Skyvan	SC7Skyvan	—	X	SP	—	
Short Brothers (Bombardier)	SD3 - 30 - 60	SD3-30/60	X	X	MP	—	
Ontic	226 T 226 T(B) 226 AT 226 TC 227 TT 227 AC 227 AT 227 BC 227 DC	SA226/227	X	X	SP HPA	—	
Textron Aviation Inc. (Cessna)	C501/500SP C551/550SP	C501/551	X	X	SP HPA	—	
Textron Aviation Inc. (Cessna)	510 (Citation Mustang)	C510	—	X	SP HPA	X	
Textron Aviation Inc. (Cessna)	525 – CJ 525 – CJ1 525A – CJ2 525 – CJ1+ 525A – CJ2+ 525B – CJ3 525B – CJ3+ 525C – CJ4 525 – M2	C525	X	X	SP HPA	X	
Textron Aviation Inc. (Cessna)	C560XL C560XLS C560XLS+	C560XL/XLS	X	X	MP	X	
Textron Aviation Inc. (Cessna)	C 500 C 550 CS 550 CS 550 Bravo 560 (Citation V) 560 (Citation Ultra) 560 Encore 560 Encore+	C500/550/560	X	X	MP	X	
Textron Aviation Inc. (Cessna)	C650 Citation III Citation VI Citation VII	C650	X	X	MP	—	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
Textron Aviation Inc. (Cessna)	C680 Sovereign	C680	X	X	MP	X	
	C680 Sovereign+ C680A Latitude						
Textron Aviation Inc. (Cessna)	C700 Citation Longitude	C700	—	X	MP	X	
Textron Aviation Inc. (Cessna)	C750 Citation X	C750	—	X	MP	X	
Textron Aviation Inc. (Cessna/ Reims Aviation)	F406 425	C406/425	X	X	SP HPA	—	
Textron Aviation Inc. (Cessna/ Reims Aviation)	441	C441	—	X	SP HPA	—	
Textron Aviation Inc. (Beech).	4000 (Hawker 4000)	HA4T	X	X	MP	X	
	4000 BPU (Hawker 4000 BPU)						
Textron Aviation Inc. (Beech).	Hawker 125 Series - Hawker 800XP / Proline 21 - Hawker 750 / Proline 21	HS125	X	X	MP	—	Differences training is applicable when equipped with an EFB software package. When the EFB software package is not installed Level B familiarisation is required.
	Hawker 125 Series - Hawker 900XP / Proline 21 and IFIS 5000 - Hawker 850XP / Proline 21 and IFIS 5000						
	Bae 125 - 800 series - 1000 series						
Textron Aviation Inc. (Beech)	BE-200/B200 BE-C90A/B/GT BE-C90/90-1 BE-E90 BE-F90/F90-1 BE-90/A90/B90 BE-200PL21/B200GT/250 BE-C90GTi/C90GTx	BE90/99/100/200	X	X	SP HPA	X	
Textron Aviation Inc. (Beech)	1900	BE300/1900	X	X	SP HPA	X	
	1900 C						
	1900 D 300 300LW B300/B300C (except with ProLine 21)						
	B300/B300C (with ProLine 21) 300 (FF serial with ProLine 21)						
Textron Aviation Inc. (Beech)	Beechjet 400 series MU 300	Beech400/ MU300	X	X	MP	X	
	BE-400XT (BE-400 A aircraft modified by EASA STC 10042091 for Proline 21 avionics and by EASA STC 10042353 for Williams FJ44-3AP engines)						
Viking Air Limited	DHC-6 (Twin Otter) Series 400	DHC6	X	X	SP	X	

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
	DHC-6 (Twin Otter) Series 300						DHC-6 series 100 and 200 have not been evaluated.
	DHC-6 (Twin Otter) Series 200						
	DHC-6 (Twin Otter) Series 100						
Viking Air Limited	DHC-6 (Twin Otter) Series	DHC-6 (Sea)	X	X	SP		Sea version not evaluated. ATO to develop the T/R training considering applicable provisions. The CA shall approve the training.
Viking Air Limited (Bombardier)	DHC7	DHC7	—	X	MP	—	
Viking Air Limited (Bombardier)	DHC8 -100 series -200 series -300 series	DHC8	X	X	MP	X	
	DHC8 -400 series						
Viking Air Limited (Short Brothers /Bombardier)	SC7 Skyvan	SC7Skyvan	—	X	SP	—	
Viking Air Limited (Short Brothers /Bombardier)	SD3 - 30 - 60	SD3-30/60	X	X	MP	—	
Vulcanair S.p.A.	AP68TP-600 Viator	AP68TP-600	—	X	SP	X	
	AP68TP-300 (“Spartacus”)	AP68TP-300	—	X	SP	—	
	SF600	SF600	—	X	SP	—	
	SF600A	SF600A	—	X	SP	—	

๒. เฮลิคอปเตอร์ (Helicopter)

Manufacturer	Helicopter Model / Name	Differences	License Endorsement	Complex	OSD FCD available	Remarks
Leonardo - SE Turbine -	AB206 A AB206 B	(D)	Bell 206	-	-	
	AB204 B AB205 A-1	(D)	Bell 204/205/UH-1D	X	-	
	Leonardo - ME Turbine -	AB212 AB412 AB412 SP	(D)	Bell 212/412	X	-

Leonardo - SE Turbine -	A119 –A119 IDS AW119MKII (Ke) AW119MKII (Kx)	(D)	A119	-	X		
	Leonardo - ME Turbine -	A109 A109 A A109 A II A109 C A109 N A109 K2 A109 LUH	(D)	A109	-	-	
		A109E A109S A109S Trekker A109SP		AW109	-	X	
AB139 & AW139 Phase 4 AW139 Phase 5 AW139 Phase 7 AW139 Phase 8		(D)	AW139	X	X		
AW169 Phase 3 AW169 Phase 4 AW169 Phase 6 AW169 Phase 8 AW169 Skid Landing Gear		(D)	AW169	X	X		
AW 189 Phase 3 AW 189 Phase 4 AW 189 Phase 5 AW 189 Phase 6 AW 189 K Phase 7		(D)	AW189	X	X		

Airbus Helicopters - SE Turbine -	SA 341 G -Gazelle SA 342 J -Gazelle		SA341/342	-	-	
	SA 3180 – Alouette II SA 318 B– Alouette II SA 318 C– Alouette I		SA318/SE313	-	-	

Manufacturer	Helicopter Model / Name	Differences	License Endorsement	Complex	OSD FCD available	Remarks	
	SE 3160 – Alouette III SE 316 B– Alouette III SE 316 C– Alouette III	(D)	SA316/319/315	-	-		
	SA 319 B – Alouette III						
	SA 315 B – Lama						
	EC 120 B			EC 120 B	-	X	
	AS 350 (B, D, B1, B2, BA, BB) – Ecureuil	(D)	AS 350 / EC 130	-	-	X	
	AS 350 B3) – Ecureuil						
	AS 350 B3 Arriel (2B1) – Ecureuil						
	AS 350 B3 (B3e) – Ecureuil						
	EC 130 B4 – Ecureuil EC 130 T2 – Ecureuil						
	Airbus Helicopters - ME Turbine –	SA 330 J - Puma		SA 330	X	-	
AS 332 (C, C1, L, L1) – Super Puma		(D)	AS 332 / EC 225	X	X		
AS 332 e (C1e, L1e) – Super Puma							
AS 332 L2 – Super Puma							
EC225 LP – Super Puma							
EC 175 B			EC 175	X	X		
AS 355 E – Ecureuil AS 355 F – Ecureuil AS 355 F1– Ecureuil AS 355 F2– Ecureuil		(D)	AS 355	-	-	X	
AS 355 N – Ecureuil							
AS 355 NP – Ecureuil							
SA 365 C1– Dauphin SA 365 C2– Dauphin SA 365 C3– Dauphin			SA 365 C	X	-		
SA 365 N - Dauphin 2 SA 365 N1 - Dauphin 2 SA 365 N2 - Dauphin 2		(D)	S 365 / EC 155	X	X	X	
AS 365 N3 - Dauphin 2							
AS 365 N3+ - Dauphin 2							
EC 155 B/B1							
H160-B		H-160	X	X			
Airbus Helicopters Deutschland GmbH - ME Turbine -	BO105 A BO105 C BO105 D BO105 LS A-1 BO105 LSA-3 BO105 S BO105 CBS		BO105	-	-		

Manufacturer	Helicopter Model / Name	Differences	License Endorsement	Complex	OSD FCD available	Remarks	
	MBB-BK117 A-1 MBB-BK117 A-3 MBB-BK117 A-4 MBB-BK117 B-1 MBB-BK117 B-2	(D)	BK117	X	-	MBB-BK117A-1 is not considered as complex due to MTOM 2850Kg	
	MBB-BK117 C-1	(D)	EC145 (BK117)	X	X		
	MBB-BK117 C-2						
	MBB-BK 117 C-2e						
	MBB-BK 117 D-2 MBB-BK 117 D-2m MBB-BK 117 D-3 MBB-BK 117 D-3m						
	EC135 P1 CDS/CPDS EC135 P2 EC135 P2+ EC635 P2+						(D)
	EC135 P3 EC635 P3						
	EC135 P3H						
	EC135 T1 CDS/CPDS EC635 T1 EC135 T2 EC135 T2+ EC635 T2+						
	EC135 T3 EC635 T3						
	EC135 T3H						
	EC135 T3H						
	Textron Canada - SE Turbine -	Bell 206 A Bell 206 B Bell 206 B 2 Bell 206 B 3	(D)	Bell 206	-	X	
Bell 206 L Bell 206L-1 Bell 206L-3 Bell 206L-4		(D)	Bell 407	-	X		
Bell 407							
Bell 407GX Bell 407GXi							
Bell 214-B Bell 214-B1			Bell 214	X	-		
Bell 505			Bell 505	-	X		
Bell Textron Inc. - ME Turbine -		Bell 212	(D)	Bell 212/412	X	X	
		Bell 412 Bell 412 SP Bell 412 HP Bell 412EP					
		Bell 412EPI					
		Bell 412 EPX					
	Bell 214ST						

Manufacturer	Helicopter Model / Name	Differences	License Endorsement	Complex	OSD FCD available	Remarks
	Bell 222 Bell 222B Bell 222UF	(D)	Bell 222/230/430	X		
	Bell 230					
	Bell 430					
	Bell 427		Bell 427	-	-	
	Bell 429		Bell 429	-	X	
Mecaer Aviation Group - SE Piston -	Breda Nardi 269		HU 269	-	-	
Mecaer Aviation Group - SE Turbine -	Breda Nardi 369		HU 369/ MD500N / 600N	-	-	
Leonardo - ME Turbine -	EH101-510		EH-101	X	-	
Enstrom - SE Piston -	F-28A F-28C F-28C-2 F-28F F-28F-R 280 280C 280F 280FX		ENF 28	-	X	
	480 480B		ENF 480	-	X	
Erickson Air-Crane Incorporated - ME Turbine -	S-64E S-64F		S 64	X	-	
Hélicoptères Guimbal - SE Piston -	Cabri G2		Cabri G2	-	X	
Hughes / Schweizer - SE Piston -	269 A 269 B 269 C 300 C 300 CB 300 CB i		HU 269	-	-	
	330 SP 333		SC 330	-	-	
Hughes / Schweizer - SE Turbine -						
Kaman - SE Turbine -	Kaman K 1200		K 1200	-	-	

Manufacturer	Helicopter Model / Name	Differences	License Endorsement	Complex	OSD FCD available	Remarks
MD Helicopters - SE Turbine -	Hughes 369 D Hughes 369 E Hughes 369 FF Hughes 369 HE Hughes	(D)	HU369 / MD500N / 600N	-	-	
	MD 500 N (NOTAR) MD 520 N AMD 500 N					
	MD 600 N					
MD Helicopters - ME Turbine -	MD 900	(D)	MD 900 / 902	-	-	
	MD 902					
National Helicopter Center Mil&Kamov -ME Turbine-	Kamov KA-32A		KA 32	X	-	Suspended
P.Z.L Swidnik, Poland - SE Turbine -	PZL SW-4		SW-4	-	X	
P.Z.L Swidnik, Poland - ME Turbine -	PZL W-3A	(D)	W-3 SOKOL	X	X	
Robinson - SE Piston -	R22 R22 Alpha R22 Beta R22 Mariner		R 22	-	X	
	R44 R44 Raven R44 Raven II		R 44	-	X	
Robinson - SE Turbine -	R66		R 66	-	X	
Sikorsky Aircraft - ME Turbine -	S-76 A S-76 A S-76 A++	(D)	SK 76	X	X	
	S-76B					
	S-76C					
	S-76D	(D)	S76	X	X	
	S-76C+ S-76 C++					
	S-92 A		SK 92	X	X	
	S-70I		S-70	X	-	

EXPLANATORY NOTES

CAAT class and type rating and licence endorsement list — flight crew

1. General

Two separate CAAT class/type rating and licence endorsement lists — flight crew are published by CAAT, one for helicopters and one for aeroplanes. These lists constitute the class and type of aircraft categorisations in accordance with FCL.010 (category of aircraft, class of aeroplane, and type of aircraft) and FCL.700 of TCAR PEL (Part-FCL) as well as in accordance with GM1 FCL.700.

The lists indicate if Operational Suitability Data (OSD) flight crew are available. CAAT type certificate data sheets (TCDSs) and the list of CAAT supplemental type certificates contain further references to OSD. Complete current OSD information is held by the relevant type certificate (TC) or STC holder.

Furthermore, the lists provide aircraft-specific references relevant to flight crew qualifications and air operations.

FCL.010 'Definitions' defines types of aircraft as follows:

'type of aircraft' means a categorisation of aircraft requiring a type rating as determined in the operational suitability data established in accordance with Annex I (Part-21) to Regulation (EU) No 748/2012 (OSD), and which includes all aircraft of the same basic design including all modifications thereto except those which result in a change in handling or flight characteristics.

FCL.700 describes the circumstances in which a class or type rating is required and GM1 FCL.700 describes tables for the classification of class rating aircraft.

2. Aircraft class ratings

Aircraft class rating designations are incorporated within the lists.

Aircraft within a class rating are not individually listed, except for aircraft with specific provisions.

3. CAAT type rating and licence endorsement lists

These lists provide users with a consolidated overview of established type rating designations and associated licence endorsements. The type rating and licence endorsement lists do not include information for all aircraft. In particular, aircraft may not be included if they are part of a class rating single-engine piston (SEP) (land/sea), class rating single-engine turbine (SET) (land/sea and amphibious), multi-engine piston (MEP) (land/sea), touring motor glider (TMG), or not subject to an OSD evaluation in accordance with Part-21.

Furthermore, the lists indicate whether aircraft are defined as complex aircraft in accordance with the Basic Regulation and if they are classified as (single-pilot) high-performance aircraft (HPA) in accordance with Part-FCL.

Finally, the lists indicate whether aircraft have been classified as variants. Flight crew type rating and variant designations are established by CAAT through the OSD flight crew evaluation process and are only valid for the evaluated aircraft make and model.

③ Licence endorsement

The licence endorsement is established in accordance with FCL.010 (category of aircraft, class of aeroplane, and type of aircraft) and FCL.700 of TCAR PEL (Part-FCL), as well as in accordance with GM1 FCL.700.

Occasionally, the addition of a new aircraft variant may lead to a change in an existing licence endorsement. In these cases, the previous licence endorsement remains valid but should be replaced with the amended endorsement during the next routine licence renewal.

④ Aircraft variants

1. Aircraft within class ratings

Aircraft within class ratings do not have associated OSD in accordance with Part-21. The 'CAAT class/type rating and licence endorsement lists — flight crew' provide categories of class ratings — such as SEP, MEP, SET, etc.— and indicate aircraft which are considered as variants.

Aircraft within the same class rating which are separated by a horizontal line in the tables require differences training, whereas those aircraft which are contained in the same cell require familiarisation when transitioning from one aircraft to another¹. As an example, a SEP (land) aeroplane with variable pitch propeller and a SEP (land) aeroplane with retractable undercarriage require differences training, whereas two different SEP (land) aeroplanes, both with cabin pressurisation require familiarisation.

All aircraft within the same class rating MEP or SET always require differences training, unless indicated otherwise in the list.

¹ Refer to GM1 FCL.135.A; FCL.135.H DIFFERENCES AND FAMILIARISATION TRAINING:

- (a) Differences training requires the acquisition of additional knowledge and training on an appropriate training device or the aircraft.
- (b) Familiarisation requires the acquisition of additional knowledge.

Example of aircraft with class ratings in the 'Type rating and licence endorsement list — flight crew'

Manufacturer	Aircraft model/name	Licence endorsement	Variants	Complex	SP / SP HPA / MP	OSD FC available	Remarks
①	②	③	④	⑤	⑥	⑦	⑧
All manufacturers	All powered sailplanes having an integrally mounted, non-retractable engine and a non-retractable propeller, capable of taking off and climbing under its own power.	TMG	X	—	SP	—	Class rating TMG Aeroplanes within the class rating touring motor glider (TMG) are not listed individually in this table, unless specific provisions have been established.
All manufacturers	...	SEP (land)	X	—	SP	—	Class rating SEP (land) Aeroplanes within the class rating SEP (land) are not listed individually in this table, unless specific provisions have been established.
	Single-engine piston (land) with variable pitch propellers (VP)						
	Single-engine piston (land) with retractable undercarriage (RU)						
All manufacturers	Single-engine turbo-prop engines	SET	X	—	SP	—	Class rating SET Aircraft within the class rating SET (land) are not listed individually in this table unless specific provisions have been established. All aircraft within the same class rating SET require differences training, unless indicated otherwise in the list.
All manufacturers	Multi-engine piston (land)	MEP (land)	X	—	SP	—	Class rating MEP (land) Aircraft within the class rating MEP (land) are not listed individually in this table, unless specific provisions have been established. All aircraft within the same class rating MEP require differences training, unless indicated otherwise in the list.

2. Aircraft with type ratings

Where more than one aircraft model/name are listed in column ② under the same licence endorsement, these aircraft are designated as variants of the same type of aircraft. This is indicated by 'X' in column ④.

Aircraft models/names of variants which are separated by a horizontal line require differences training (for example, B737-500 series and B737-600 series), whereas those variants which are contained in the same cell only require familiarisation (for example, B737-300 series and B737-400 series), when transitioning from one variant to another.

Normally, the variant designation is the result of an operational evaluation referenced in column ⑦ and ⑧. The referenced document(s) may contain specific details regarding pilot training, checking and currency, as well as prerequisites, credits, or limitations, and must be consulted. Transitioning between variants may not have been evaluated between all models or in all directions.

OSD flight crew documents are held by the relevant (S)TC holder and available in accordance with Part-21, 21.A.62. A list of OSD TC-STC holder contacts is published on the CAAT website.

Where variant determinations are established without an operational evaluation, operators, ATOs or competent authorities should assess the differences, as applicable.

Example of aircraft with type ratings in the “CAAT Type rating and licence endorsement list”

Manufacturer	Aeroplane model/ Name	Licence endorsement	Variants	Complex	SP / SPHPA/ MP	<u>OSD FC</u> <u>available</u>	Remarks
①	②	③	④	⑤	⑥	⑦	⑧
Boeing	B737 -100 series -200 series	B737 100-200	X	X	MP	—	
Boeing	B737 CL -300/-400/-500 Series	B737 300-900	X	X	MP	X	
	B737 NG -600/-700/-800/ -900/-900 ER						
	B737 MAX -8 /-8200/-9 Series						

⑤ Complex

The mark ‘X’ in column ⑤ indicates that an aircraft is categorised as complex motor-powered aircraft in accordance with the definition in the Basic Regulation.

⑥ Single-pilot (SP)/SP HPA/Multi-pilot (MP)

Column ⑥ indicates if an aircraft is certified for a minimum of one pilot (SP), classified as high-performance aeroplane (SP HPA) in accordance with Part-FCL requirements, or certified for a minimum of two pilots (MP).

Note: Aircraft which are certified for SP may be operated in a multi-crew environment for a variety of reasons. Applicable requirements relevant to flight crew qualifications and air operations apply; OSD for flight crew may contain additional provisions, where available.

⑦ **OSD FC**

The mark 'X' in column ⑦ indicates the availability of an Operational Suitability Data Flight Crew (OSD FC) document.

OSD FC documents are established in accordance with the Part-21 aircraft type certification provisions, are held by the (S)TC holder and made available in accordance with Part-21, para. 21.A.62.

Where no OSD FC documents exist– Flight Crew may be established by the Agency to assist CAAT, operators, training organisations, instructors and any other personnel involved in flight crew training and air operations. OSD Contact list are published on the EASA website at <https://www.easa.europa.eu/document-library/operational-suitability-data>

⑧ **Remarks**

Relevant information in relation training and differential training are indicated in this column

ADDITIONAL INFORMATION NOTES

For supporting Reference only SET,SEP and MEP class ratings previously listed under CAAT type rating and old licence endorsement list flight crew – Aeroplanes

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA /MP	OE GM / OEB / OSD FC available	Remarks
Aerospace Aircraft Integrated Soutlions	Ae 270	SET (land)	—	—	SP	—	Previous license endorsement “Aero Vodochody SET”
Air Tractor Inc.	AT-402, -402A, -402B	SET (land) / SET (sea) as applicable	X	—	SP	—	Previous license endorsement “AT-4/5/6/8 SET”
	AT-502, -502A, -502B						
	AT-503, -503A						
	AT-602						
	AT-802 AT-802 A			X			
	AT-802 (amphibious) AT-802 A (amphibious)						
Allied Ag Cat Productions (Grumman Gulfstream)	Am.G-164D (Grumman G-164)	SET (land)	—	—	SP	—	Previous license endorsement “Gulfstream SET”
Textron Aviation Inc. (Cessna)	206 A/T Soloy	SET (land) / SET (sea) as applicable	X	—	SP	—	Previous license endorsement “Cessna SET”
	207 A/T Soloy						
	210 (Silver Eagle)						
	206 A/T Soloy (sea)						
	207 A/T Soloy (sea)						
	206 with STC 10061949						
208							
208 (sea)							
Diamond Aircraft Industries GmbH	DA 42 (DA 42, DA 42 M, DA 42 NG, DA 42 M-NG)	MEP (land)	X	—	SP	X	-
	DA 62						
Grob Aircraft AG	G 120 TP - analogue avionics series	SET (land)	X	—	SP	—	Previous license endorsement “G 120TP SET”
	G 120 TP - digital avionics series						
Grob Aircraft AG	G 520T	SET (land)	—	—	SP HPA	—	Previous license endorsement “G520 SET”
Pacific Aerospace Ltd.	PAC750XL	SET (land)	—	—	SP	—	Previous license endorsement “PAC750XL SET”

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA /MP	OE GM / OEB / OSD FC available	Remarks
Pilatus Aircraft Ltd.	PC-6 (manual stabiliser trim)	SET (land)	X	—	SP	—	Previous license endorsement “Pilatus PC6 SET”
	PC-6 (electrical stabiliser trim)						
Pilatus Aircraft Ltd.	PC-7	SET (land)	—	—	SP	—	Previous license endorsement “Pilatus PC7 SET”
Pilatus Aircraft Ltd.	PC-12/47E (PC-12 NG)	SET (land)	X	—	SP HPA	X	Previous license endorsement “Pilatus PC12 SET”
	PC-12/47E (PC-12 NGX)						
	PC-12						
	PC-12/45 PC-12/47 PC-12/41						

Piper Aircraft, Inc.	PA-31 (Navajo, Navajo Chieftain, Mojave)	MEP (land)	—	—	SP	—	-
Piper Aircraft, Inc.	PA-46-310P (Malibu) PA-46-350P (Malibu Mirage) PA-46R-350T (Malibu Matrix)	SEP (land)		—	SP	—	Class rating SEP (land) for PA-46-310P (Malibu), PA-46-350P (Malibu Mirage), and PA-46R-350T (Malibu Matrix). Difference levels for the PA-46R-350T (Malibu Matrix) have not been evaluated. Differences training which is not further specified, was established by the JAA between the Piper PA-46-310P (Malibu)/PA-46-350P (Malibu Mirage) and the PA-46-500TP (Malibu Meridian) aircraft.
Piper Aircraft, Inc.	PA-46-500TP (Malibu Meridian)	SET (land)	X	—	SP HPA	X	Previous license endorsement “PA-46 SET” Class rating SET for PA-46-500TP (Malibu Meridian), the Jetprop LLC Piper PA-46 (Jetprop DLX), and the PA-46-600TP (M600). The Piper PA-46-500TP (Malibu Meridian) and the Jetprop LLC Piper PA-46 (Jetprop DLX) aircraft have been evaluated as variants requiring familiarisation. The PA-46-600TP (M600) and PA-46-701TP (M700 Fury) were assessed as variant for the license endorsement PA-46 SET, requiring differences training.
Jetprop LLC Piper (STC)	PA-46 Jetprop DLX						
Piper Aircraft, Inc.	PA-46-600TP (M600)						
	PA-46-701TP (M700 Fury)						

Manufacturer	Aircraft model / name	Licence endorsement	Variants	Complex	SP / SP HPA /MP	OE GM / OEB / OSD FC available	Remarks
Quest Aircraft Design LLC	Kodiak 100 (land)	SET (land) / SET (sea) as applicable	—	—	SP	—	Previous license endorsement “SET Kodiak 100”
	Kodiak 100 (sea)						

SOCATA (Daher Aviation)	TBM 700 A (TBM 700)	SET (land)	X	—	SP HPA	X	Previous license endorsement “TBM SET”
	TBM 700 B (TBM 700)						
	TBM 700 C1 (TBM 700)						
	TBM 700 C2 (TBM 700)						
	TBM 700 N						
	• TBM 850						
	TBM 700 N						
	• TBM 850 G1000						
TBM 700 N	SET (land)	X	—	SP HPA	X	Previous license endorsement “TBM SET”	
• TBM 900							
TBM 700 N							
• TBM 910							
TBM 700 N							
• TBM 930							
TBM 700 N							
• TBM 940							
TBM 700 N	SET (land)	X	—	SP HPA	X	Previous license endorsement “TBM SET”	
• TBM 960							

SST Flugtechnik GmbH	EA 400 - Extra 400	SEP (land)	—	—	SP	X	Class rating SEP (land)
SST Flugtechnik GmbH	EA 400-500 - Extra 500	SET (land)	—	—	SP		Previous license endorsement “Extra500 SET”

TEXTRON AVIATION INC (Beech)	Model G36 with turbo-prop engine (Bonanza)	SET (land)	—	—	SP	—	Previous license endorsement “BE36TC SET”
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Thrush Aircraft Inc.	S2R turbo thrush	SET (land)	—	—	SP	—	Previous license endorsement “Snow/Ayres SET”
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Viking Air Limited	DHC-2 Turbo-Beaver	SET (land)	—	—	SP	—	Previous license endorsement “DHC2 SET”
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