
EASA Workshop
From JARs to IRs – Flight Crew Licensing



The Professional Pilot Licence



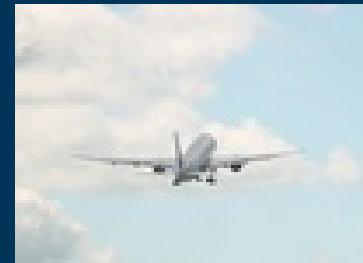
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The Professional Pilot Licence

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- ★ Commercial Pilot Licence
- ★ Multi-Crew Pilot Licence
- ★ Airline Transport Pilot Licence
- ★ Instrument Rating
- ★ Class and Type Ratings
- ★ Instructors
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Introduction

➤ The Part FCL system

- ★
- ★ **Subpart D – Commercial Pilot Licence - CPL**
- ★ **Subpart E – Multi-Crew Pilot Licence - MPL**
- ★ **Subpart F – Airline Transport Pilot Licence - ATPL**
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- ★ **Subpart K - Examiners**
- ★



Introduction

➤ The Part FCL system

★ Appendices to Part FCL

There are 12 Appendices to Part FCL, containing detailed technical requirements on the following issues:

➤ Appendix 1

➤ Crediting of theoretical knowledge;

➤ Appendix 2

➤ Syllabus of theoretical knowledge for the ATPL, CPL and instrument rating for aeroplanes and helicopters;



Introduction

➤ The Part FCL system

★ Appendices to Part FCL - continued

- Appendix 3
 - Training courses for the CPL, ATPL and instrument rating;
- Appendix 4
 - Skill test for the CPL;
- Appendix 5
 - Training course for the MPL;



Introduction

➤ The Part FCL system

★ Appendices to Part FCL - continued

➤ Appendix 6

➤ Modular training courses for the instrument rating;

➤ Appendix 7

➤ Skill test for the instrument rating;

➤ Appendix 8

➤ Cross-crediting of the instrument rating part of a type or class rating proficiency check;

➤ Appendix 9

➤ Skill test and proficiency check for the ATPL, type and class ratings, and the instrument rating;



Introduction

➤ The Part FCL system

★ Appendices to Part FCL - continued

➤ Appendix 10

- Course of additional theoretical knowledge for class and type ratings for high performance aeroplanes;

➤ Appendix 11

- Cross crediting of proficiency checks for revalidation of type ratings for helicopters;

➤ Appendix 12

- Instructors skill test, proficiency checks and theoretical knowledge examinations.

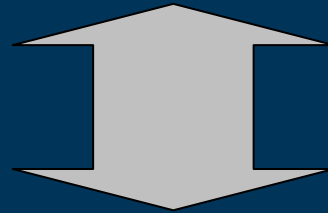


Introduction

➤ The Part FCL system

★ In summary:

Subparts A – K
Appendices 1 – 12 to Part FCL



Acceptable Means of Compliance
and Guidance Material associated to Part FCL



Introduction

➤ The Part FCL system

★ Common Requirements, e.g.:

- ➔ Minimum age
- ➔ Privileges and conditions
- ➔ Theoretical knowledge
- ➔ Flight instruction
- ➔ Skill test

★ Specific Requirements for an aircraft category

- ➔ Aeroplane (A)
- ➔ Helicopter (H)
- ➔ *Powered-lift (PL) **
- ➔ *Airship (As) **

* New requirements, not transferred from JAR-FCL



Commercial Pilot Licence

➤ Subpart D – Section 1

★ Common Requirements

- FCL.300 - Minimum age
 - At least 18 years of age.

- FCL.305 - Privileges and conditions





FCL.305 CPL - Privileges and conditions

- (a) *Privileges.* The privileges of the holder of a CPL are, within the appropriate aircraft category, to:
- (1) exercise all the privileges of the holder of a PPL;
 - (2) act as pilot-in-command or co-pilot of any aircraft engaged in operations other than commercial air transportation;
 - (3) act as pilot-in-command in commercial air transport of any single-pilot aircraft, subject to the restrictions specified in FCL.060 and in this Subpart;
 - (4) act as co-pilot in commercial air transportation.
- (b) *Conditions.* An applicant for the issue of a CPL shall have fulfilled the requirements for the class or type rating of the aircraft used in the skill test.



Commercial Pilot Licence

➤ Subpart D – Section 1

★ Common Requirements

- FCL.300 - Minimum age
- FCL.305 - Privileges and conditions
- FCL.310 - Theoretical knowledge
 - Course » Approved Training Organisation
 - Examination » Appendix 2 to Part FCL

APPENDIX 2
Theoretical knowledge syllabus for the ATPL, CPL and IR
A. Aeroplanes and helicopters

		<i>Aeroplane</i>		<i>Helicopter</i>			<i>IR</i>
		ATPL	CPL	ATPL /IR	ATPL	CPL	
033 00 00 00	FLIGHT PLANNING AND FLIGHT MONITORING	X	X	X	X	X	X
033 01 00 00	FLIGHT PLANNING FOR VFR FLIGHTS						
033 02 00 00	FLIGHT PLANNING FOR IFR FLIGHTS						
033 03 00 00	FUEL PLANNING						
033 04 00 00	PRE-FLIGHT PREPARATION						
033 05 00 00	ATS FLIGHT PLAN						
033 06 00 00	FLIGHT MONITORING AND IN-FLIGHT RE-PLANNING						



Commercial Pilot Licence

➤ Subpart D – Section 1

★ Common Requirements

- FCL.300 - Minimum age
- FCL.305 - Privileges and conditions
- FCL.310 - Theoretical knowledge
 - Course » Approved Training Organisation
 - Examination » Appendix 2 to Part FCL
- FCL.315 - Flight instruction
 - Course » Approved Training Organisation, see Appendix 3 to Part FCL
- FCL.320 - Skill test
 - See Appendix 4 to Part FCL



Commercial Pilot Licence

➤ Subpart D

- ★ Section 2 - Specific requirements for the aeroplane category – CPL(A)
 - ➔ FCL.305.A – CPL(A) - Privileges to act in commercial air transport
 - ➔ FCL.325.A – CPL(A) - Specific requirements for MPL(A) holders
 - ➔ See also Appendix 3, paragraph 11(a) and 12
- ★ Section 3 – Specific Requirements for the helicopter category – CPL(H)
 - ➔ FCL.305.H – CPL(H) – Privileges to act in commercial air transport
 - ➔ FCL.305.H – CPL(As) Privileges to act in commercial air transport



Commercial Pilot Licence

➤ Subpart D

- ★ Section 4 – Specific requirements for the CPL powered-lift – CPL(PL)
 - ➔ *Reserved*

- ★ Section 5 - Specific Requirements for the airship category – CPL(As)
 - ➔ FCL.305.As – CPL(As) Privileges to act in commercial air transport



Multi-Crew Pilot Licence

➤ Subpart E

★ **FCL.400.A – MPL Minimum age**

➔ At least 18 years of age.

★ **FCL.405.A – MPL – Privileges**





FCL.405.A MPL - Privileges

- (a) The privileges of the holder of an MPL are to:
 - (1) act as co-pilot in an aeroplane required to be operated with a co-pilot; and
 - (2) exercise the privileges of the IR(A) in an aeroplane required to be operated with a co-pilot.
- (b) The holder of an MPL may obtain the extra privileges of:
 - (1) the holder of a PPL(A), provided that the requirements for the PPL(A) specified in Subpart C are met;
 - (2) a CPL(A), provided that the requirements specified in FCL.325.A are met;
 - (3) the IR(A) in single-pilot operations in aeroplanes provided that the licence holder has completed the training necessary to act as pilot-in-command in single-pilot operations exercised solely by reference to instruments and passed the skill test of the IR(A) as a single-pilot.



Multi-Crew Pilot Licence

➤ Subpart E

★ FCL.400.A – MPL Minimum age

➔ At least 18 years of age.

★ FCL.405.A – MPL – Privileges

★ FCL.410.A – MPL – Theoretical Knowledge and flight instruction

➔ See Appendix 5 to Part FCL

★ FCL.415.A – MPL Skill

➔ See Appendices 5 and 9 to Part FCL



Multi-Crew Pilot Licence

➤ MPL key features

- ✧ Direct training into operational environment of a multi-pilot aeroplane.
- ✧ Approved *ab initio* integrated training course.
- ✧ More extended use of modern training devices.
- ✧ Flexibility for training providers.
- ✧ Competency based training.
- ✧ Strong link with airline operators.
- ✧ Progressive implementation based on existing approved courses.
- ✧ Close oversight by the competent authority and regular feedback.
- ✧ Traditional training routes remain available.



Airline Transport Pilot Licence

➤ Subpart F – Section 1

★ Common Requirements

- ➔ FCL.500 – ATPL – Minimum age
 - ➔ At least 21 years of age.
- ➔ FCL.505 – ATPL – Privileges





FCL.505 ATPL - Privileges

(a) The privileges of the holder of an ATPL are to, within the appropriate aircraft category:

- (1) exercise all the privileges of the holder of a PPL and a CPL;
- (2) act as pilot-in-command in aircraft engaged in commercial air transportation;
- (3) for the aeroplane category, to exercise all the privileges of an IR(A).

(b) Applicants for the issue of an ATPL shall have fulfilled the requirements for the type rating of the aircraft used in the skill test.



Airline Transport Pilot Licence

➤ Subpart F – Section 1

★ Common Requirements

- FCL.500 – ATPL – Minimum age
 - At least 21 years of age.
- FCL.505 – ATPL – Privileges
- FCL.515 – ATPL – Theoretical Knowledge instruction and examination
 - Course » see Appendix 3 to Part FCL
 - Examination » see Appendix 2 to Part FCL



Airline Transport Pilot Licence

➤ Subpart F

★ Section 2 – Specific requirements for ATPL(A)

- ➔ FCL.505.A – Restriction of privileges for pilots previously holding a MPL(A)



FCL.505.A ATPL(A) – Restriction of privileges for pilots previously holding a MPL(A)

When the holder of an ATPL(A) has previously held only a multi-crew pilot licence, the privileges of the licence shall be restricted to multi-pilot operations, unless the holder has complied with FCL.405.A (b)(2) and (3) for single-pilot operations.



Airline Transport Pilot Licence

➤ Subpart F

★ Section 2 – Specific requirements for ATPL(A)

- ➔ FCL.505.A – ATPL(A) - Restriction of privileges for pilots previously holding a MPL(A)
- ➔ FCL.510.A – ATPL(A) – Pre-requisites, experience and crediting
- ➔ FCL.515.A – ATPL(A) – Theoretical knowledge instruction – Modular course
- ➔ FCL.520.A – ATPL(A) – Skill test
 - ➔ See also Appendix 9 to Part FCL

★ Section 3 – Specific requirements for ATPL(H)

- ➔ FCL.510.H – ATPL(H) – Pre-requisites, experience and crediting
- ➔ FCL.515.H – ATPL(H) – Theoretical knowledge instruction – Modular course
- ➔ FCL.520.H – ATPL(H) – Skill test
 - ➔ See also Appendix 9 to Part FCL

★ Section 4 - Specific requirements for ATPL(PL)

- ➔ Reserved



Instrument Rating



➤ Subpart G – Section 1

★ Common Requirements

- ➔ FCL.600 – IR – General
- ➔ FCL.605 – IR – Privileges





FCL.605 IR - Privileges

- (a) The privileges of a holder of an IR are to fly aircraft under IFR with a minimum decision height of 200 feet (60m).
- (b) In the case of a multi-engine IR, these privileges may be extended to decision heights lower than 200 feet (60 m) when the applicant has undergone specific training at an approved training organisation and has passed section 6 of the skill test prescribed in Appendix 9 to this Part in multi-pilot aircraft.



FCL.605 IR - Privileges

(c) Holders of an IR shall exercise their privileges in accordance with the limitations established in Appendix 7 to this Part.

(d) *Helicopters only.* To exercise privileges as pilot-in-command under IFR in multi-pilot helicopters, the holder of an IR(H) must have at least 70 hours of instrument time of which up to 30 hours may be instrument ground time.



Instrument Rating

➤ Subpart G – Section 1

★ Common Requirements

- FCL.600 – IR – General
- FCL.605 – IR – Privileges
- FCL.610 – IR – Pre-requisites



FCL.610 IR – Pre-requisites

Applicants for an IR shall:

(a) hold:

- (1) a PPL with a night rating in the appropriate aircraft category; or
- (2) a CPL, with a night rating in the appropriate aircraft category; or
- (3) an ATPL in another category of aircraft;



FCL.610 IR – Pre-requisites

Applicants for an IR shall:

....

(b) have completed at least 50 hours cross-country flight time as pilot-in-command in aeroplanes, helicopters or airships of which at least 10 or, in the case of airships, 20 hours shall be in the relevant aircraft category.

(c) Applicants who have completed an integrated flying training course as ATPL(H)/IR, ATPL(H), CPL(H)/IR or CPL(H) shall be exempted from the requirement in paragraph (b).



Instrument Rating

➤ Subpart G – Section 1

★ Common Requirements

- FCL.600 – IR – General
- FCL.605 – IR – Privileges
- FCL.610 – IR – Pre-requisites
- FCL.615 – IR – Theoretical knowledge and flight instruction
 - Integrated Course: Appendix 3 to Part FCL
 - Modular Course: Appendix 6 to Part FCL
- FCL.620 – IR – Skill test
 - See Appendix 7 to Part FCL
- FCL.625 – IR – Validity, revalidation and renewal



Instrument Rating

➤ Subpart G

★ **Section 2 – Specific requirements for IR(A)**

- ➔ FCL.625.A – IR(A) – Revalidation *

★ **Section 3 – Specific requirements for IR(H)**

- ➔ FCL.625.H – IR(H) – Revalidation *
- ➔ FCL.630.H – IR(H) – Extension of privileges from single-engine to multi-engine helicopters *

★ **Section 4 - Specific requirements for IR(PL)**

- ➔ Reserved

★ **Section 5 – Specific requirements for IR(As)**

- ➔ FCL.625.As – Revalidation of IR – airships *

*) See also Appendix 9 to Part FCL



Class and Type Ratings

➤ Subpart H – Section 1

★ Common Requirements

- FCL.700 – Circumstances in which class or type ratings are required
- FCL.705 – Privileges of the holder of a class or type rating
- FCL.710 – Class and type ratings – Variants



FCL.710 Class and type ratings - Variants

- (a) In order to extend its privileges to another variant of aircraft within one class or type rating, the pilot shall undertake differences or familiarisation training, as defined in accordance with *Part 21*
- (b) If the variant has not been flown within a period of 2 years following the differences training, further differences training or a proficiency check in that variant shall be required to maintain the privileges, except for types or variants within the single-engine piston class rating.
- (c) The differences training shall be entered in the pilot's logbook or equivalent document and signed by the instructor as appropriate.



Class and Type Ratings

➤ Subpart H – Section 1

★ Common Requirements

- FCL.700 – Circumstances in which class or type ratings are required
- FCL.705 – Privileges of the holder of a class or type rating
- FCL.710 – Class and type ratings – Variants
- FCL.725 – Requirements for the issue of class and type ratings
- FCL.740 – Validity and renewal of class and type ratings
 - Renewal: See Appendix 9 to Part FCL



Class and Type Ratings

➤ Subpart H

★ Section 2 – Specific requirements for (A)

- ➔ FCL.720.A – Experience requirements and pre-requisites for the issue of class or type ratings – aeroplanes
- ➔ FCL.725.A – Knowledge and flight instruction for the issue of class or type ratings – aeroplanes
- ➔ FCL.730.A – Specific requirements for pilots undertaking a ZFTT course – aeroplanes
- ➔ FCL.735.A – Multi-crew cooperation training- aeroplanes
- ➔ FCL.740.A – Revalidation of class and type ratings – aeroplanes
 - ➔ Type ratings and multi-engine class ratings *
 - ➔ Single-pilot single-engine class ratings *

*) See also Appendix 9 to Part FCL



Class and Type Ratings



➤ Subpart H

★ Section 3 – Specific requirements for (H)

- ➔ FCL.720.H – Experience requirements and *pre-requisites* for the issue of type ratings – helicopters
 - ➔ Multi-pilot helicopters
 - ➔ Single-pilot multi-engine helicopters
- ➔ FCL.735.H – Multi-crew cooperation training - helicopters
- ➔ FCL.740.H – Revalidation of type ratings – helicopters *

*) See also Appendix 9 to Part FCL



Class and Type Ratings

➤ Subpart H

★ Section 4 - Specific requirements for (PL)

- FCL.720.PL – Experience requirements and *pre-requisites* for the issue of type ratings for powered lift aircraft
 - Helicopter pilots
 - Aeroplane pilots
 - Pilots qualified to fly aeroplanes and helicopters
- FCL.725.PL – Flight instruction for the issue of type ratings for powered lift aircraft
- FCL.740.PL – Revalidation of type ratings – powered lift aircraft *

*) See also Appendix 9 to Part FCL



Class and Type Ratings

➤ Subpart H

★ Section 5 – Specific requirements for (As)

- ➔ FCL.720.As – Pre-requisites for the issue of type ratings
- ➔ FCL.735.As – Multi-crew cooperation training
- ➔ FCL.740.As – Revalidation of type ratings *

*) See also Appendix 9 to Part FCL



Instructors



➤ Subpart J

★ Section 1 – Common requirements

➔ FCL.900 – Instructor certificates



FCL.900 Instructor certificates

(a) *General.* A person shall not carry out:

(1) flight instruction in aircraft unless he/she holds:

- (i) a pilot licence issued or accepted in accordance with this Regulation;
- (ii) an instructor certificate appropriate to the instruction given, issued in accordance with this Subpart;

(2) synthetic flight instruction or multi-crew cooperation instruction unless he/she holds an instructor certificate appropriate to the instruction given, issued in accordance with this Subpart.



FCL.900 Instructor certificates

(b) *Special conditions*

(1) In the case of introduction of new aircraft, when compliance with the requirements established in this Subpart is not possible, the competent authority shall issue a specific certificate giving privileges for flight instruction. Such a certificate shall be limited to the instruction flights necessary for the introduction of the new type of aircraft and its validity shall not, in any case, exceed 3 years.

(2) The holder of a certificate issued in accordance with (b)(1) who wishes to apply for an instructor certificate shall comply with the pre-requisites and revalidation requirements established for that category of instructor.



Instructors

➤ Subpart J

★ Section 1 – Common requirements

- FCL.900 – Instructor certificates
- FCL.915 – General requirements for instructors



FCL.915 General requirements for instructors

- (a) *General.* An applicant for an instructor certificate shall be at least 18 years of age.

- (b) *Additional requirements for flight instructors.* An applicant for an instructor certificate with privileges to conduct flight instruction in an aircraft shall:
 - (1) hold at least the licence and, if applicable, the rating for which instruction is to be given;
 - (2) have:
 - (i) completed at least 15 hours of flight as a pilot on the class or type of aircraft on which instruction is to be given, of which a maximum of 7 hours may be in an FSTD, if applicable; or
 - (ii) passed a skill test or proficiency check for the relevant category of instructor on that class or type of aircraft;
 - (3) be entitled to act as pilot-in-command of the aircraft during such instruction.



FCL.915 General requirements for instructors

(c) Credit towards further ratings and for the purpose of revalidation

- (1) Applicants for further instructor certificates may be credited with the teaching and learning skills already demonstrated for the instructor certificate held.
- (2) Hours flown as an examiner during skill tests or proficiency checks shall be credited in full towards revalidation requirements for instructor certificates held.



Instructors

➤ Subpart J

★ Section 1 – Common requirements

- FCL.900 – Instructor certificates
- FCL.915 – General requirements for instructors
- FCL.920 – Instructor competencies and assessment
- FCL.925 – Instructors for MPL
- FCL.940 – Validity of instructor certificates



FCL.940 Validity of instructor certificates

With the exception of the mountain rating instructor, and without prejudice to FCL.900(b)(2), instructor certificates shall be valid for a period of 3 years.



Instructors

➤ Subpart J

★ Further sections with specific requirements on:

- Privileges and conditions
- Pre-requisites for training course
- Training course
- Skill test
- Revalidation and renewal



Instructors

➤ Subpart J

★ Further sections with specific requirements

- Section 2 – Light Aircraft Flight Instructor - LAFI
- Section 3 – Flight Instructor - FI
- Section 4 – Type Rating Instructor - TRI
- Section 5 – Class Rating Instructor - CRI



Instructors

➤ Subpart J

★ Further sections with specific requirements

- Section 6 – Instrument Rating Instructor - IRI
- Section 7 – Synthetic Flight Instructor - SFI
- Section 8 – Multi-Crew Cooperation Instructor - MCCI
- Section 9 – Synthetic Training Instructor - STI
- Section 10 – Mountain Rating Instructor - MI



Examiners



➤ Subpart K

★ Section 1 – Common requirements

➔ FCL.1000 – Examiner certificates



FCL.1000 Examiner Certificates

- (a) *General.* Holders of an examiner certificate shall:
- (1) hold a licence and rating at least equal to the licence or rating for which they are authorised to conduct skill tests or proficiency checks and the privilege to instruct for this licence or rating;
 - (2) be qualified to act as pilot-in-command of the aircraft during a skill test or proficiency check.



FCL.1000 Examiner Certificates

(b) Special conditions.

(1) In the case of introduction of new aircraft, when compliance with the requirements established in this Subpart is not possible, the competent authority shall issue a specific certificate giving privileges for the conduct of skill tests and proficiency checks. Such a certificate shall be limited to the skill tests and proficiency checks necessary for the introduction of the new type of aircraft and its validity shall not, in any case, exceed 3 years.

(2) The holder of a certificate issued in accordance with (b)(1) who wishes to apply for an examiner certificate shall comply with the pre-requisites and revalidation requirements established for that category of examiner.



Examiners

➤ Subpart K

★ Section 1 – Common requirements

- FCL.1000 – Examiner certificates
- FCL.1005 – Limitations of privileges in case of vested interests
- FCL.1010 – Pre-requisites for examiners



FCL.1010 Pre-requisites for examiners

Applicants for an examiner certificate shall demonstrate:

- (a) relevant knowledge, background and appropriate experience related to the privileges of an examiner;
- (b) that they have not had their licence suspended, limited or revoked during the last 3 years;
- (c) that they have not been subject to the application of any sanctions for non compliance with this Part or Part-OPS during the last 3 years.



Examiners

➤ Subpart K

★ Section 1 – Common requirements

- ➔ FCL.1000 – Examiner certificates
- ➔ FCL.1005 – Limitations of privileges in case of vested interests
- ➔ FCL.1010 – Pre-requisites for examiners
- ➔ FCL.1015 – Examiner standardisation
- ➔ FCL.1020 – Examiners assessment of competence
- ➔ FCL.1025 – Validity, revalidation and renewal of examiner certificates
- ➔ FCL.1030 – Obligations for examiners



Examiners

➤ Subpart K

★ Further sections with specific requirements on:

- Privileges and conditions
- Pre-requisites



Examiners

➤ Subpart K

★ Further sections with specific requirements for:

- Section 2 – Flight Examiners – FE
- Section 3 - Type Rating Examiners – TRE
- Section 4 – Class Rating Examiners - CRE



Examiners

➤ Subpart K

★ Further sections with specific requirements for:

- Section 5 – Instrument Rating Examiners – IRE
- Section 6 – Synthetic Flight Examiners – SFE
- Section 7 – Flight Instructor Examiners - FIE



Summary

➤ How to become a professional pilot?

➤ The traditional way:

➤ **Modular route**

» PPL course, CPL course, IR course, ATPL theoretical knowledge course and many hours of flight and tests.

➤ **Integrated route**

» ATP integrated course, resulting in the issue of a CPL and IR and ATPL Theory



Summary

- How to become a professional pilot?
 - ✈ The latest developments and alternative way for aeroplanes:
 - ✈ The Integrated Multi-Crew Pilot Licence (MPL(A)) course.
 - ✈ Resulting in a MPL(A) with Multi-Pilot Type Rating and ATPL theory



Thank you for your attention !!

Questions ???

