



EASA

European Aviation Safety Agency



Information Session for

commercial balloon operators 17. February 2009

Flight Crew Licensing

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European Aviation Safety Agency

Information Session Commercial balloon operators



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- ✧ **Structure of the NPA**
- ✧ **Leisure Pilot Licence LPL(B)**
- ✧ **Balloon Pilot Licence**
- ✧ **Night Rating**
- ✧ **Instructor and Examiner certificates**
- ✧ **Discussion and answering questions**



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Abbreviations



BR – Basic Regulation

NPA – Notice of proposed Amendment

ER - Essential Requirements (Annex BR)

IR – Implementing Rules

AMC – Acceptable Means of Compliance



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Abbreviations



CS – Certification Specifications

GM – Guidance Material

NAAAs – National Aviation Authorities

CAA – Civil Aviation Authority



Abbreviations



LPL – Leisure Pilot Licence

BPL – Balloon Pilot Licence

SPL – Sailplane Pilot Licence

LAFI – Light Aircraft Flight Instructor

FI / FE – Flight Instructor / Examiner

LAFE – Light Aircraft Flight Examiner



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Flight Crew Licensing FCL - Structure



Basic Regulation EC 216/2008

Article 7

Pilots

Pilots involved in the operation of aircraft referred to in Article 4(1)(b) and (c), as well as flight simulation training devices, persons and organisations involved in the training, testing, checking or medical assessment of these pilots, shall comply with the relevant 'essential requirements' laid down in Annex III.

Annex III

Essential Requirements for Pilot Licensing



"State of play" ?

EASA Basic Regulation (BR)

- Annex I - airworthiness
- Annex II - excluded aircraft
- Annex III - pilot licensing
- Annex IV - air operations
- Annex V - qualified entities

Agency Opinion

European Parliament
European Council

Implementing
Rule (IR)

Implementing
Rule (IR)

Implementing
Rule (IR)

Agency
Opinion

European
Commission

CS, AMC
& GM

CS, AMC
& GM

CS, AMC
& GM

CS, AMC
& GM

CS, AMC
& GM

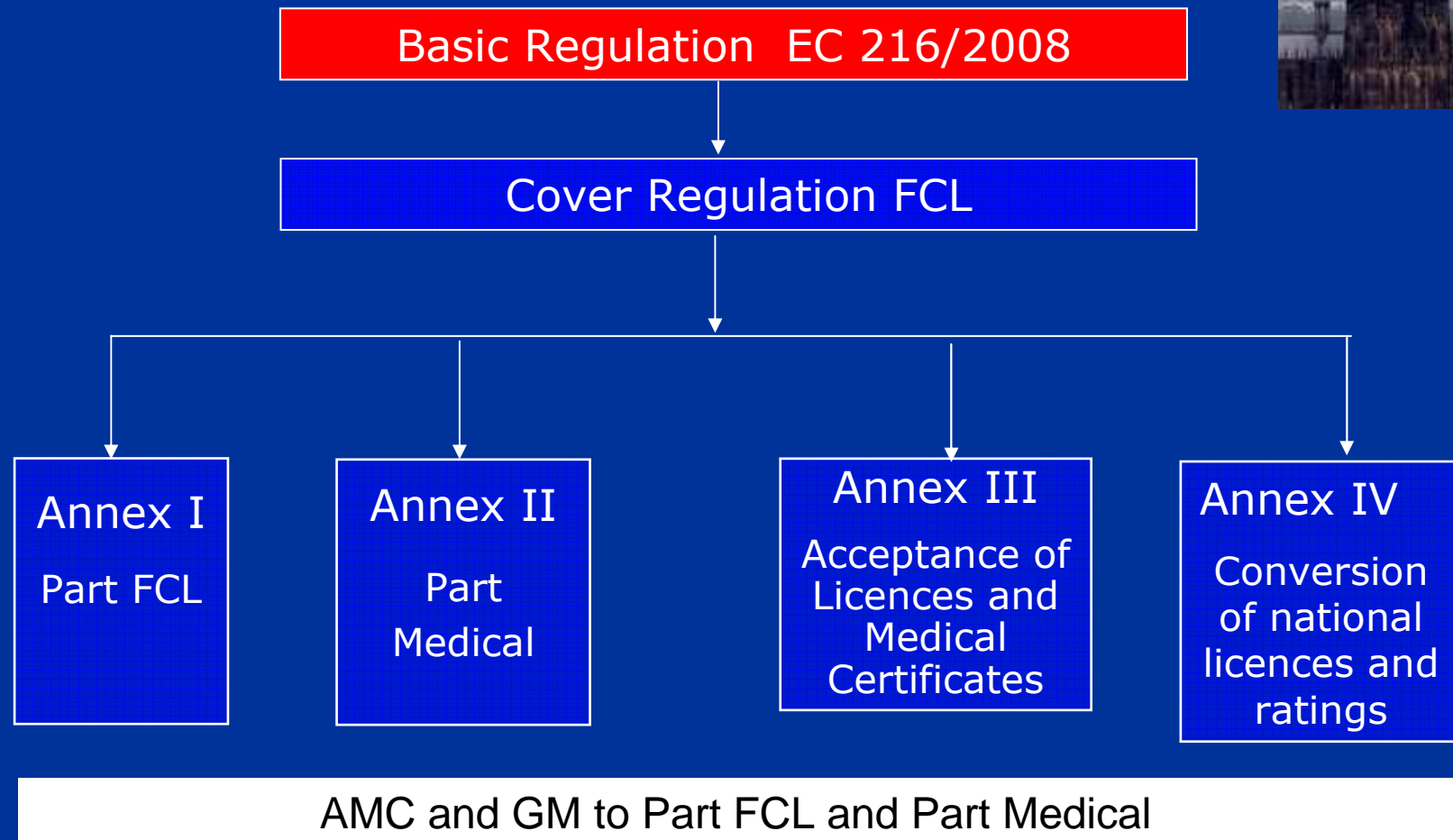
Agency
Decision

EASA



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Flight Crew Licensing FCL - Structure





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FCL – Structure

NPA 2008/17b Draft Opinion Part-FCL



Part-FCL

- ➔ **Subpart A - General Requirements (FCL.005)**
- ➔ **Subpart B - Leisure Pilot Licence (LPL)**
- ➔ **Subpart C - PPL / SPL / BPL**
- ➔ **Subpart D/E/F - CPL / MPL / ATPL**
- ➔ **Subpart G - Instrument Rating - IR**
- ➔ **Subpart H - Class and Type ratings**
- ➔ **Subpart I - Additional Ratings**
- ➔ **Subpart J - Instructors**
- ➔ **Subpart K - Examiners (FCL.1010.FIE)**



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FCL – Structure

NPA 2008/17b Draft Opinion Part-FCL



Additionally:

Appendices 1 – 12

- ➔ **Crediting of Theoretical Knowledge**
- ➔ **Skill Test, Proficiency Check - Instructor**

Draft Decision AMC and GM for Part-FCL

- ➔ **AMC and GM for different subparts**
- ➔ **AMC and GM Leisure Pilot Licence**
- ➔ **AMC for the Appendices (e.g. FI skill test)**



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NPA 2008-17b



Part-FCL

Subpart A - General Requirements

FCL.010 Definitions

- **balloon & class / group of balloon**
- **flight time**
- **student Pilot (minimum age solo)**
- **Theoretical knowledge examinations**
- **practical skill test**
- **.....**



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General requirements



Part-FCL Subpart A - General Requirements

FCL.060 Recent experience

(a) *Balloons.* A pilot shall not operate a balloon in commercial air transport or carrying passengers unless he/she has completed in the preceding 90 days at least one takeoff, approach and landing as a pilot flying in a balloon.



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General requirements



Part-FCL Subpart A - General Requirements

FCL.065 Curtailment of privileges of licence holders aged 60 years or more

(a) Age 60–64. The holder of a pilot licence who has attained the age of 60 years shall not act as a pilot of an aircraft engaged in commercial air transport operations except:

- (1)** as a member of a multipilot crew; and,
- (2)** provided that such holder is the only pilot in the flight crew who has attained age 60.

(b) Age 65. The holder of a pilot licence who has attained the age of 65 years shall not act as a pilot of an aircraft engaged in commercial air transport operations.



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General requirements



ICAO Annex I – Limitation of privileges

2.1.10.1 A Contracting State, having issued pilot licences, shall not permit the holders thereof to act as pilot-in-command of an aircraft engaged in international commercial air transport operations if the licence holders have attained their 60th birthday or, in the case of operations with more than one pilot where the other pilot is younger than 60 years of age, their 65th birthday.

2.1.10.2 Recommendation (max. age of 65)



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Terms of Reference

Subgroup LPL



“Such measures shall also include provisions for the issuance of all types of pilot licences and ratings required under the Chicago Convention, and of a **leisure pilot licence covering non-commercial activities involving aircraft with a maximum certificated take off mass of 2000 kg or less and which do not meet any of the criteria referred to in Article 3(j).” (Basic Regulation 216/2008)**



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Leisure Pilot Licence

NPA 2008/17b Draft Opinion Part-FCL



→ Concept of the Leisure Pilot Licence



- Light Aircraft Pilot Licence
- FCL.001 & MDM.032 SG LAPL
- TORs / Results A-NPA 14/2006
- national licencing systems
- Proposals / feedback experts



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LPL requirements



Part FCL **Subpart B** – Leisure Pilot Licence **Section 1** – Common Requirements

- ➔ **FCL.100 Minimum Age of 16 years (licence)**
- ➔ **FCL.105 Privileges and conditions**
- ➔ **FCL.110 Crediting for the same A/C category**
- ➔ **FCL.120 TK (4 common subjects)**



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LPL requirements

Part-FCL



Subpart B – Leisure Pilot Licence

Section 6 – Specific Requirements LPL(B)

→ FCL.105.B LPL(B) Privileges

→ hot-air balloons / airships up to 4000m³

→ gas balloons up to 1200m³

→ carrying 3 passengers



→ FCL.110.B Experience

→ 16 hours dual flight instruction & 1 solo flight

→ including at least 10 fillings & 20 take-offs



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LPL requirements

Part-FCL



Subpart B – Leisure Pilot Licence

Section 6 – Specific Requirements LPL(B)

- ➔ **FCL.135.B LPL(B) Extension to another class (hot-air & gas balloons / hot-air airships)**
- ➔ **5 instruction flights**
- ➔ **in the case of HAB -> HAA: 5 hours**
- ➔ **skill test including TK (4 subjects)**



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LPL requirements

Part-FCL



Section 6 – Specific Requirements LPL(B)

- **FCL.140.B LPL(B) Recency requirements**
- **Privileges shall be exercised only (24 months):**
 - **12 h as PIC & 8 Take-offs / Ldg. or**
 - **6 h as PIC & 1 Flight with LAFI/FI**
 - **or „Proficiency Check“**

(if „extension“ for another class: at least 2 additional hours in this class)

**„...at least once every 6 years
a proficiency check with examiner !..“**



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LPL requirements

Part-FCL Specific Requirements



Proficiency Check - Recency requirements (BR – ER Annex III - 1.e.2)

“... An appropriate level of competence in practical skill must be maintained. Compliance must be demonstrated by **regular assessments, examinations, tests or checks**. The frequency of examinations, tests or checks must be proportionate to the level of risk associated with the activity...”



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LPL requirements

Part-FCL Specific Requirements



Proficiency Check - Recency requirements (BR – ER Annex III - 1.j.1)

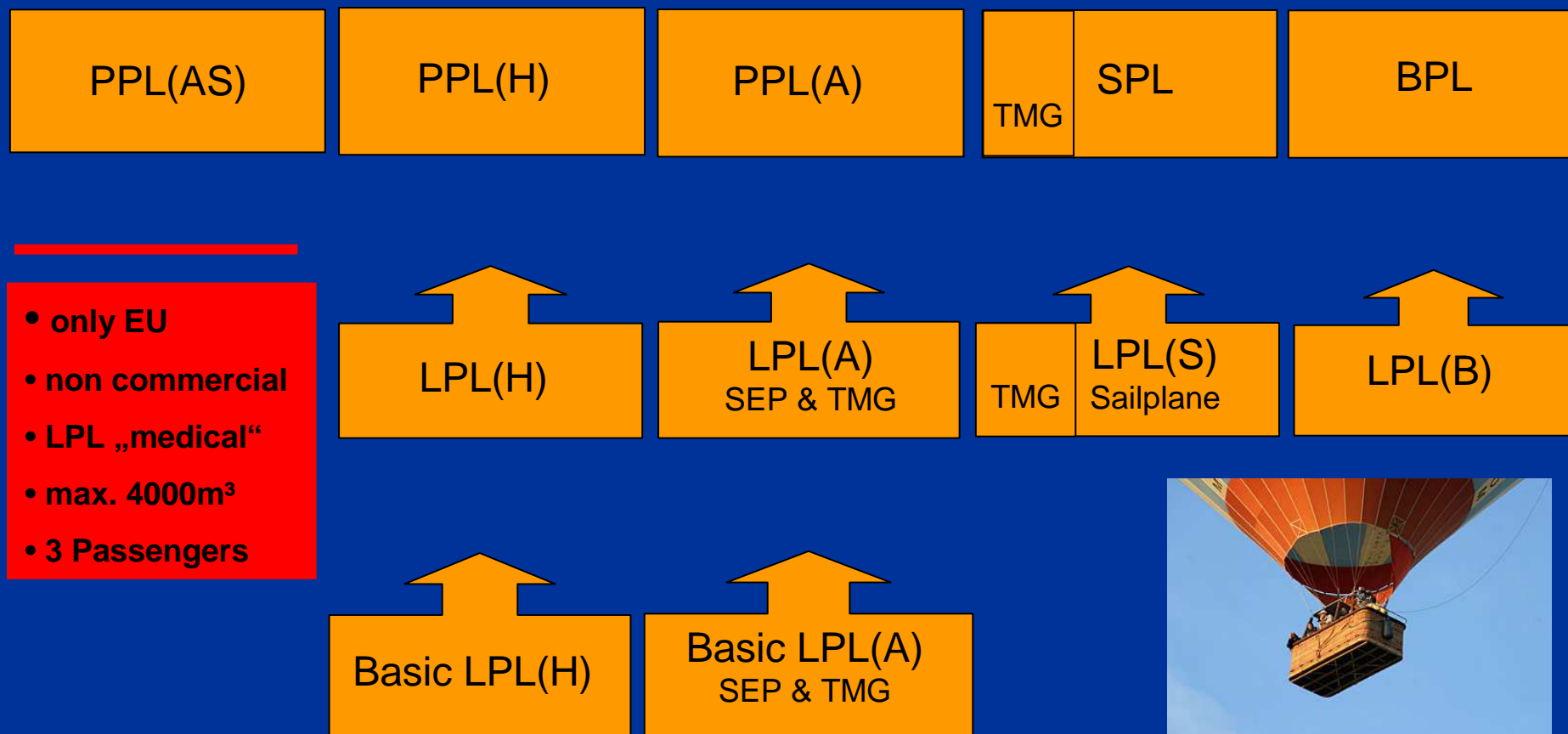
Examiners

Persons responsible for assessing the skill of pilots must:

- (i) meet the requirements for flight or flight simulation instructors;
- (ii) be capable of **assessing pilot performance and conducting flight tests and checks.**



LPL Structure - Overview





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Subpart C

PPL / SPL / BPL



Section 7 – Specific Requirements for the BPL

FCL.205.B BPL - Privileges and conditions

- ➔ PIC Balloons and HAA
- ➔ Groups: small – medium - large (AMC – p.359)
- ➔ Restricted: „non-commercial“
- ➔ commercial privilege: 75h – proficiency check with examiner (see: page 356 – NPA 2008-17)
- ➔ may receive remuneration for flight instruction



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Subpart C

PPL / SPL / BPL



Commercial licence for balloon operations ?

ICAO Provisions – Annex I

2.10.1.3.4 Recommendation.— *If passengers are to be carried for remuneration or hire, the licence holder should have completed not less than 35 hours of flight time including 20 hours as a pilot of a free balloon.*



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Subpart C

PPL / SPL / BPL



Section 7 – Specific Requirements for the BPL

FCL.210.B BPL – Experience and crediting

- ➔ same requirements as for the LPL(B) but on balloons of the same group (size related)
- ➔ groups (AMC - page 359): small/medium/large
- ➔ full credit for the LPL(B) holder
- ➔ Medical class II



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Subpart C

PPL / SPL / BPL



Section 7 – Specific Requirements for the BPL

FCL.225.B BPL – Extension class / group

- ➔ another class: see FCL.135.B
- ➔ another group within the same class:
 - ❑ at least 20 hours of flight time
 - ❑ 3 instruction flights (on balloon of relevant group)

Input: Group distinction (s.359) & AMC (s.262)

FCL.230.B BPL – recency see FCL.140.B



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Subpart C

BPL



Licence & experience for commercial operations ?

- 16 hours dual training with FI
- 1 solo flight under supervision
 - Skill test with examiner
- 18 years / 75 hours as PIC of balloons
- Skill test for commercial privilege with examiner
- For group medium or large: at least 3 flights with FI
- OPC check every 6 months (& recent experience)



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LPL requirements

Part-FCL



Subpart J – Instructors

Section 2 – Specific requirements for LAFI

Section 3 – Specific requirements for the FI

FCL.915.LAFI Pre-requisites for the course

- ➔ **passing of a pre-entry flight test (with FI)**
- ➔ **LAFI(B): 75 hours on balloons / at least 15 hours in the class and group for which instruction will be given**



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LPL requirements

Part-FCL



Subpart J – Instructors

Section 2 – Specific requirements for LAFI

FCL.920.LAFI Training Course

→ **TK instruction and instructional techniques**

→ **dual flight instruction:**

□ **LAFI(B) 3 hours and 3 take-offs**

&

FCL.935.LAFI Skill Test



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LPL requirements

Part-FCL



Subpart J – Instructors

Section 2 – Specific requirements for LAFI

FCL.940.LAFI Revalidation and Renewal

- ➔ the instructor has to fulfill 2 of 3 requirements:
 - ❑ flight instruction (6h – 2h preceding 12 months)
 - ❑ refresher seminar
 - ❑ proficiency check
- ➔ new: every third revalidation: proficiency check
- ➔ Renewal: refresher seminar & proficiency check



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Requirements for PPL / SPL / BPL



Subpart K - Examiners

Section 2 – Specific requirements for the FE

FCL.1015 Examiner Standardisation

FCL.1025 Validity - Revalidation

FCL.1005.FE Privileges and conditions

FCL.1010.FE Pre-requisites

Section 7 – Requirements for the FIE



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AMC and GM for PPL / SPL / BPL



Draft Decision AMC and GM for Part FCL

➔ **AMCs / GM to Subpart C (pages 269-359)**

- ❑ **Syllabus theoretical knowledge for PPL**

- ❑ **TK examination**

- ❑ **Content of the skill test for the PPL**

- ❑ **Flight instruction – syllabus**

- ❑ **skill test for extensions to commercial privileges**

- ❑ **Extension of privileges - balloon class/group**



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Comment Response Tool



**Please use this opportunity to
take part in the rulemaking
process !**

**Thank you for
your attention !**

**Further questions
or comments ?**



Matthias Borgmeier - EASA

