JAR NF (A)
Theory Training Program

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This theory training program is in accordance with JAR-FCL 1.125 (1.12.2006) and national regulations TRG M1-1 (11.12.1999), PEL M2-1 (15.12.1999) and PEL M2-10 (24.10.1994).

Aim of this training program

After this theory course student shall have good knowledge and understanding of flying at night and the risks involved in it. Teachers shall give students the best possible tools and guidance for self studying and absorbing the required knowledge and airmanship.

Contents of the training program

This training program contains the following amount of lessons.
One lesson is 50 minutes long. 1 lesson exam and 1 lesson feedback is included in the program.

Subject	Number of lessons	
JAR NF (A) Theory	10+1+1	= 12
Total amount of lessons		= 12 lessons = 10h 00min

Theory training rules and limitations

This theory training syllabys shall be completed before any night flight training is commenced.

After lessons an exam is held to test the level of students knowledge and understanding.

Before taking an exam student shall have completed all theory lessons and compensated possible absences.

In case student fails a re-exam he/she must have at least 2 lessons of rehersal training before next re-exam.

To pass the exam student must answer correct at least 75% of the questions in the exams. In each exam there shall be at least 20 questions, so that one wrong answer doesn't degrade the result of the exam more than 5 %. In case the number of questions in an exam is such that none of the possible results gives a result of exactly 75%, then the amount of correct answers that gives more than 75% is the lowest one to pass the exam.

Teachers must fill up documentation of all theory training immediately after training.

Additional training/absence compensation

100% attendance is required for all theory training. In case student is absent from theory lessons, they have to be, either held separately or to be studied with another theory course.

All extra lessons must be documented by the teacher.

JAR NF(A) Theory 10 lessons + exam + feedback

In this JAR NF(A) theory training the following subjects shall be covered:

1 Regulations concerning night flights **2 lessons**

- Rules of the air OPS M1-1 (30.11.2006)
  - Definitions
  - Application
  - General rules
  - Visual flight rules
  - PEL M2-10 (24.10.1994), OPS M2-1 (21.12.2007)
  - Relevant parts of JAR FCL 1 (1.12.2006)

2 Aerodrome lighting and obstacle lights **2 lessons**

- Visual signal equipments
  - Signals and pointing devices
  - Markings
  - Lights
  - Signs
  - Visual signals

- Obstacle lights and markings
  - Marking of obstacles
  - Obstacle lights

- Colours of aerodrome lights and signs

3 Flight procedures on night flights **4 lessons**

- General rules
  - Altimeter setting procedures
  - Weather information

- Area control service
    - Separation of controlled flights in different airspace classes
    - PICs responsibility of collision avoidance in VMC conditions
    - PICs actions in an emergency situations and when loosing radio contact

- Approach control service
    - Procedures of departing and arriving aircrafts in VMC conditions

- Aerodrome control service
    - Controlled VFR flights
    - Information given to the aircraft

4 Human performance and limitations when night flying is concerned **2 lessons**

- Concepts
    - Composition of the atmosphere
    - Breathing and blood circulation

- Vision
    - Physiology of vision
    - Limitations of vision

- Hearing
    - Physiology of hearing
    - Senses in the inner ear
    - Effects of altitude change
    - Spatial disorientation