



EASA

European Aviation Safety Agency

Significant Revisions to the Learning Objectives and Syllabus

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AMC1 to Appendix 3: Training Courses for issue of a CPL and ATPL

- Amendment of syllabus to include the development and assessment of the Area 100 KSA LOs
- Description of classroom training and practical work methods:
 - Lessons, tutorials and demonstrations; planning, communication, group presentations, scenario and project exercises; practical work using training devices, computer-based training, workbook exercises, assignments, airport and/or industry field trips and other media as approved by NAA



AMC1 to Appendix 3: Training Courses for issue of a CPL and ATPL

- Training devices, which may be used for practical work, may be a tablet or laptop/desktop with applications or adaptive learning programmes, systems trainers, flat panel trainers, part task trainers, flight navigation and procedures trainers, flight training devices and/or full flight simulators. The instructors must have received training in the exercise and on the device.
- Minimum hours in each subject have been removed.



Updating of examination tables

- Updating of the AMC1 ARA.FCL.300(b) examination procedures tables to:
 - Reflect LO additions/deletions in each section
 - Enable greater emphasis on topics relating to risk, safety, application and operational importance
 - Ensure that the relative weighting between topics is appropriate for the licence level
 - Add the CBIR(A) & EIR column
 - Adjust exam duration and number of questions where required



Learning objectives updated to:

- Be current, relevant and essential (others deleted)
- Be based on latest technological advances, current regulations and include UPRT
- Require greater application and consideration of TEM
- Improve clarity and/or scope
- Reduce repetition within and across subjects
- Be relevant to aircraft category and licence level



Basic Knowledge Learning Objectives

- The identification of LOs which are essential knowledge but at basic level
- To be taught by ATO
- Not directly examined by ECQB, however knowledge required in more complex ECQB questions



➤ LOs:

- Detailed information relating to regulatory documents not required by flight crew has been deleted, e.g.: Tokyo, Montreal, The Hague Conventions
- Detailed knowledge relating to some of the ICAO Annexes has been deleted, e.g.: Annex 8 Airworthiness of Aircraft
- References to the use of FMS moved to 022 and RNAV to 062
- References to regulatory documentation updated



➤ LOs:

- Updated to include emergent technology, e.g.: no-bleed systems architecture
- Overly technical information deleted as of no practical use for a line pilot

➤ AMC1 ARA.FCL.300(b) Table amendment

- Greater emphasis on electrics



022 AGK Instrumentation

➤ LOs:

- LOs updated with number of new LOs in autopilot, flight director, FMA, autoland, autothrust, FMS and CDU/MCDU areas
- Incorporation of magnetism LOs previously in 061 (General Navigation)

➤ AMC1 ARA.FCL.300(b) Table amendment

- 022 05 deleted. INS/IRS moved to 061



➤ LOs:

- Foundation knowledge such as some definitions, identified as 'Basic Knowledge'
- Some LOs amended to increase skill level,
- Addition of LOs relating to TEM, application, new methods and technologies

➤ AMC1 ARA.FCL.300(b) Table amendment

- Deletion of section 031 03 name



032 Performance (Aeroplanes)

➤ LOs:

- LOs moved, split or combined to prevent repetition
- Addition of LOs on TEM, RTOW/RLW tables, EFB and energy management in the descent

➤ AMC1 ARA.FCL.300(b) Table amendment

- ATPL(A) 45 qu/90 mins (previously 35 qu in 60 min)
- CPL(A) 28 qu/60 mins (previously 25qu in 45 min)
- Redistribution of LOs sections

- 032 02:Class B theory and 032 03:Class B practical
- 032 04:Class A theory and 032.05: Class A practical



033 Flight Planning

➤ LOs:

- Movement and deletion of LOs within subject for clarity and to prevent duplication
- Introduction of LOs relating to the selection of alternates; previously in 070 (Ops)
- Introduction of additional LOs relating to flight monitoring and in-flight re-planning, previously in 061 (General and Inertial Navigation)



034 Helicopter Performance

➤ LOs:

- Amendment of LOs to update regulations, terms and knowledge for helicopters
- Deletion of LOs relating only to aeroplanes



040 Human Performance & Limitations

- AMC1 ARA.FCL.300(b)Table amendment
 - Increase proportion of basic aviation psychology exam questions (040 03) to physiology
 - 040 01 4 questions instead of 2
 - 040 02 20 questions instead of 33
 - 040 03 24 questions instead of 13
- Stakeholders are invited to submit comments on required depth of knowledge and number of physiology LOs in 040 02



050 Meteorology

➤ LOs:

- Foundation knowledge about the atmosphere, ISA etc., identified as 'Basic Knowledge'
- Greater emphasis on in-flight hazards and weather events which could contribute to an upset or loss of control in the cruise phase of flight
- Altimetry and the use of Weather Radar now principally examined in 050



061 General and Inertial Navigation

➤ LOs:

- Significant reordering of LOs between sections
- Addition of INS/IRS from 022 (Instrumentation)
- Transfer of Magnetism to 022 (Instrumentation)
- Transfer of en-route re-planning navigation to 033 (Flight Planning)
- Transfer of altitude calculations to 050 (Met)
- AMC1 ARA.FCL.300(b) Table amendment
 - ATPL exam duration reduced from 120 mins to 90 mins to reflect reduction in LOs



062 Radio Navigation

➤ LOs:

- Deletion of systems no longer used
- LOs under 062 05 01 are deleted and replaced with the PBN LOs (062 07)
- FMS LOs have been transferred to 021 (AGK)
- EFIS LOs have been transferred to 022 (Inst)

➤ AMC1 ARA.FCL.300(b) Table amendment

- ATPL(H) number of questions increased from 34 to 44 in line with allotted time and number of LOs



070 Operational Procedures

- LOs:
 - LOs based on ICAO Annexes and equated to EU 965/2012 (Air Operations)
- AMC1 ARA.FCL.300(b) Table amendment
 - Minimal change
- Stakeholders are invited to submit comments on the location of the LOs on ETOPS and NAT HLA (presently in 070) and selection of alternate aerodromes (presently in 033 & 070)



081 Principles of Flight (Aeroplanes)

➤ LOs:

- New LOs relating to UPRT

➤ AMC1 ARA.FCL.300(b) Table amendment

- New LO section 032 05 'Stall, shock stall, and upset prevention and recovery' with relevant LOs transferred from 081 01 and 02



082 Principles of Flight (Helicopters)

- LOs:
 - Movement of technical LOs to (AGK)
 - Deletion of LOs relating only to aeroplanes and military helicopters



090 VFR and IFR communications

➤ LOs:

➤ 091 and 092 LOs combined as one subject

➤ To avoid past duplication,

➤ To ensure all professional pilots are knowledgeable in both VFR and IFR communications for safety and TEM

➤ AMC1 ARA.FCL.300(b) Table amendment

➤ 36 qu in 45 mins (previous 24 qu in 30 min x2)

➤ New LO sections 090 07 and 08 (Met observations and Morse identifiers respectively)



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Q&A session to follow soon

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