



**Area 100 KSA**

# Executive Director Decision 2018/001/R of 6 February 2018

- ▶ **AMCs & GM to Part-FCL and Part-ORA of Commission Regulation (EU) No 1178/2011, as amended, as regards the theoretical knowledge syllabi and learning objectives for ATPL, MPL, CPL, and instrument ratings (IRs) for aeroplanes (A) and helicopters (H)**
- ▶ (9) This Decision contains the updated Learning Objectives (LOs) for the theoretical knowledge (TK) syllabi and ground school examinations, and introduces the threat and error management (TEM) concept and its application. The updated LOs correspond to today's operational environment and ensure that commercial pilots are equipped with the knowledge and understanding relevant to modern flight deck and current industry needs. The updated pilot training will contribute to the overall enhancement of the pilots' core competencies and their ability to make informed decisions.
- ▶ (10) This Decision also introduces new LOs under Area 100 'Knowledge, skills and attitudes' (KSA) whose aim is to enhance the pilots' KSA contained in the core competencies. This Area 100 contains requirements for approved training organisations (ATOs) to assess student pilots' KSA. These skills focus on the pilots' ability to apply their knowledge and understanding across subjects and to demonstrate technical and non-technical skills. These LOs will, therefore, not be the subject of examinations organised by competent authorities or their agents, but will be assessed by the ATOs to ensure that student pilots have an adequate level of competency before they are allowed to sit their final TK examinations.
- ▶ <https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2018001r>

# ATO:n suorittamat 100 KSA arvioinnit

## ▶ AREA KSA 100 ASSESSMENTS AND MENTAL MATH TEST

- ▶ An ATO that delivers theoretical knowledge instruction for professional pilot licences should ensure that for the learning objectives (LOs) in topics 100 02 and 100 03 of Area 100 KSA there are at least two summative assessments and at least one formative assessment. The summative assessments are to be documented in the student's training records. Both the summative assessments and the formative assessment(s) should be debriefed.
- ▶ An ATO that delivers theoretical knowledge instruction for professional pilot licences should ensure that at least one KSA mental maths test is conducted and the outcome(s) documented in the student's training records.

# Formative assesment

- ▶ (1) be designed such that the student has the opportunity to ask questions and develop competencies in most of the LOs in 100 02 and 100 03 of Area 100 KSA;
- ▶ (2) be conducted during the training; the ATO may in addition conduct a formative evaluation (continuous assessment) over a specified phase of the course; and
- ▶ (3) be conducted by an instructor that is trained to deliver the formative assessment.

# Summative assessment

- ▶ (1) be designed so that they collectively give the student the opportunity to demonstrate competency in all LOs in 100 02 and 100 03 of Area 100 KSA; each individual summative assessment may address some of the LOs in 100 02 and 100 03 of Area 100 KSA;
- ▶ (2) be satisfactorily completed before the student is recommended by the ATO for their first attempt to take the final theoretical knowledge examination paper, and the outcome of the assessments should be included in the student's training record;
- ▶ (3) require that for a student to be considered that they have achieved a 'Satisfactory' standard, they:
  - ▶ (i) meet at least 35 % (which defines the term 'some' used in the word pictures) of the indicators relevant to the assessment exercise, in each competency;
  - ▶ (ii) have an overall positive effect on the outcome or completion of the exercise without any external input from the instructor, or where the assessment requires the instructor to facilitate the exercise, without the instructor providing any knowledge or corrective input to assist in the completion of the exercise; and
- ▶ (4) be conducted by an instructor that is trained to deliver the summative assessments.

# Area 100 KSA Mental maths test

## ▶ **AREA 100 04 LEARNING OBJECTIVES: MENTAL MATHS TEST AND RECORDS**

- ▶ (a) An ATO that delivers theoretical knowledge instruction for professional pilot licences should ensure that at least one KSA mental maths test is conducted and the outcome(s) documented in the student's training records.
- ▶ (b) The mental maths test(s) may be written or oral in format and should, where possible, be scenario-based, with at least two questions per LO in topic 100 04 of Area 100 KSA.
- ▶ (c) The minimum score to pass the Area 100 KSA mental maths test(s) should be 75 % of the marks allocated to a test. However, a higher pass mark may be defined by the ATO.
- ▶ (d) The mental maths test(s) should be satisfactorily completed before the student is recommended by the ATO for their first attempt to take their final theoretical knowledge examination paper.

# ECQB 2020 – KSA 100

## ▶ **Syllabus and LOs applicable by 31 January 2022 at the latest**

The amendments to AMC/GM to Part-FCL and AMC/GM to Part-ARA update existing AMCs and introduce new provisions covering the following:

- ▶ Extensive updates to the TK syllabus and LOs,
- ▶ Merged subject 090 Communications,
- ▶ Threat and error management (TEM) concept and its application,
- ▶ New Area 100 “Knowledge, Skills and Attitudes” (KSA), to ensure the appropriate integration of various topics from across the theoretical knowledge course while also developing students’ core competencies. ATOs will assess a student pilot’s ability in the Area 100 KSA LOs,
- ▶ Accommodation of modern teaching methodologies and evolving learning needs,
- ▶ Full review of the exam blueprints

# 100 KSA Vaikutukset:

- ▶ 1178/2011 Appendix 3
  - ▶ ATP(A)/(H) integrated
  - ▶ CPL/IR(A)/(H) integrated
  - ▶ CPL(A)/(H) integrated
  - ▶ CPL(A)/(H) modular
  - ▶ MPL(A)
  - ▶ ATP/IR(H) integrated
  - ▶ ATP(H) modular



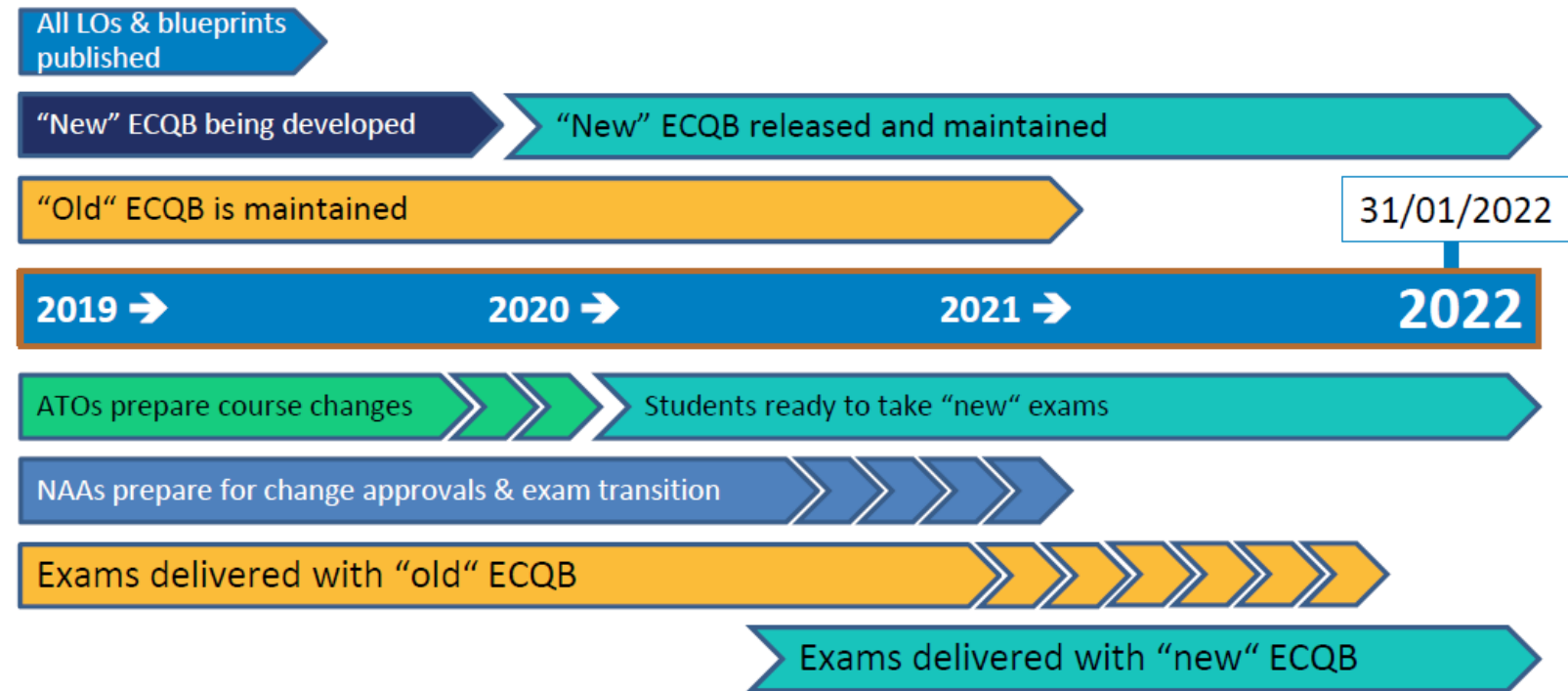
# Aikataulu (EU) 2018/1974

## KOMISSION TÄYTÄNTÖÖNPANOASETUS (EU) 2018/1974, 2 artikla

- ▶ Seuraavia säännöksiä sovelletaan kuitenkin seuraavasti:
- ▶ a) 1 artiklan 1 kohtaa sovelletaan 20 päivästä joulukuuta 2019 alkaen.
- ▶ b) 1 artiklan 4 kohtaa sovelletaan 20 päivästä joulukuuta 2019 alkaen.
- ▶ c) Sen estämättä, mitä b alakohdassa säädetään, tämän asetuksen liitteessä olevaa 2, 4, 5 ja 12 kohtaa sovelletaan 31 päivästä tammikuuta 2022 alkaen.
  - ▶ **(2) "FCL.310 CPL – Teoriakokeet "**
  - ▶ **(4) "FCL.515 ATPL – Koulutus ja teoriakokeet"**
  - ▶ **(5) "FCL.615 IR – Teoria- ja lentokoulutus"**

# Aikataulu (EU) 2018/1974

## Changes to syllabus & LOs - timeline



- ▶ EASA workshop materiaali osoitteessa: <https://www.easa.europa.eu/newsroom-and-events/events/area-100-ksa-workshop-follow>
- ▶ Onko tarvetta Traficom 100 KSA ATO workshopille?
- ▶ Miten Traficom voi auttaa siirtymässä?
  - ▶ Compliance listat?

## Kiitos

juha.tuomainen@traficom.fi  
www.traficom.fi  
@TraficomFinland