

# Area 100 KSA

New theoretical knowledge element for training toward commercial licenses:

«Knowledge, skills and attitude»

12.09.2018

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## Goal of this presentation

We learn about the following points:

- What is Area 100 KSA and why do we need it?
- Who is affected in the ATO?
- What are the changes in the training?
- What are the amendments to the documentation?
- Who can instruct KSA instructors?

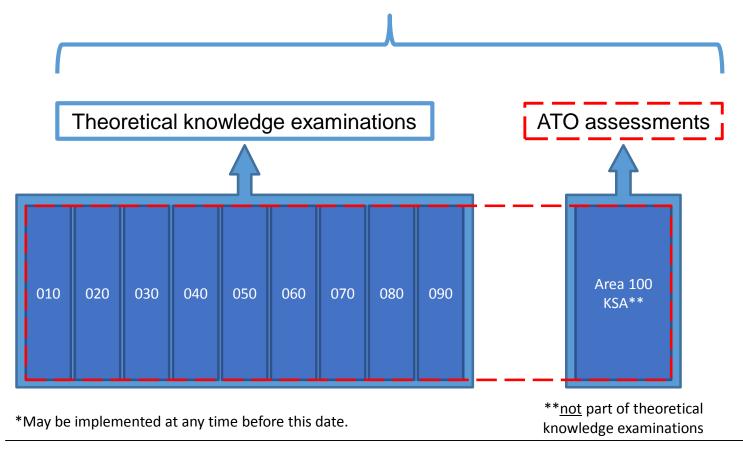


### What is Area 100 KSA?

Date of applicability: 31. January 2022\*

#### «Knowldge, skills and attitude» for commercial pilots

In both helicopter and aeroplane categories: ATPL, MPL, CPL



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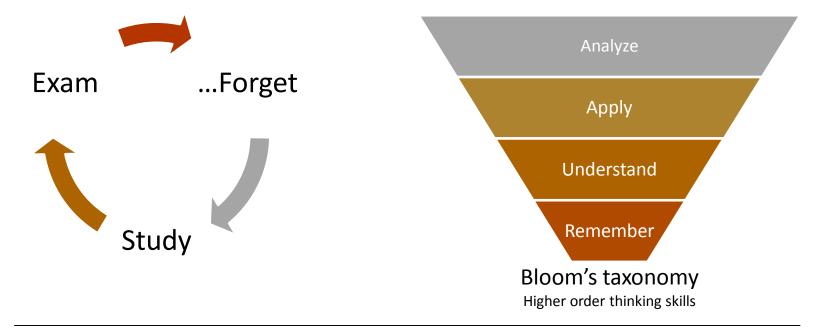


## Why do we need it?

EASA data shows: 50% of licensed pilots

fail AOC assessments

Single choice examinations do not verify if the answers come from rote learning or from understanding.





## How do we approach this problem?

Area 100 KSA differs from other learning objectives (LOs) in the verbs used: **Show** and **demonstrate** 

The aim is to elevate the students to a higher level of thinking.

Plan, discuss, evaluate, create

Calculate, interpret, relate, solve

Describe, explain

State, list, define, recall

Bloom's taxonomy

Higher order thinking skills

Refer to GM1 FCL.310; FCL.515(b); FCL.615(b)

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## **Learning Objectives (LOs)**

Area 100 KSA introduces new LOs for ATPL, MPL and CPL:

- LO 100 01 ICAO Core Competencies\*
- LO 100 02 Communication

Leadership and teamwork

Problem-solving and decision-making

Situation awareness

Workload management

LO 100 03 Threat and error management (TEM)

Application of knowledge

Upset and recovery training (UPRT) and

resilience

LO 100 04 Mental maths (approximations)

Note: Area 100 KSA is based on the ICAO Core Competencies (ICAO Doc 9995 «Manual of Evidence-based Training»).

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### Who is affected?

### Compliance Monitoring Manager (CMM):

- Become familiar with Area 100 KSA (ED Decision 2018/001/R);
- Amend the ATO's documentation.

### Chief Theoretical Knowledge Instructor (CTKI)\*:

- Responsible for the course design and KSA implementation;
- Instruct KSA instructors (initial and annual training).

When designing the course, remember the core of Area 100 KSA:

«Tell me and I forget, teach me and I remember, involve me and I learn»

\*or other suitable nominated person



## What are the changes in the training?

#### The ATO should conduct at least:

#### One formative assessment

During the learning process;

The student *develops* the competencies in most KSA LOs.

#### Two summative assessments

At the end of a learning episode (e.g. after a subject is completed);

The student *demonstrates* the competencies in all KSA LOs. The instructor uses the ATO's performance indicators to assess the student's KSA.

#### One mental maths test

The student applies the gained theoretical knowledge;

This test should be scenario-based and includes estimations and calculations.



### What is a KSA assessment?



Note: The timing and number of the assessments is up to the ATO.

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### Amendments to the documentation

#### The most obvious:

- Training Manual (TM)
  - Chapter 1.9 renamed «<u>Assessments</u>, tests and examinations»;
  - Chapter 1.9.2 describes the Area 100 KSA assessments;
  - Chapter 1.9.5 renamed to «Test and <u>assessment</u> reports and records»;
  - New appendices providing an example of a summative assessment and a mental maths test.

#### The less obvious\*:

- OMM (record keeping);
- OM-D (KSA instructor training).

<sup>\*</sup>This is not an exhaustive list. The full implementation in the documentation is a CMM responsibility.

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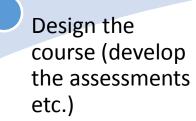
### **KSA** instructors

- The person responsible to implement Area 100 KSA, e.g.
   CTKI\*, can deliver initial/annual training to KSA instructors;
- The assessments are very unique in each ATO, therefore the training is to be conducted by the ATO;
- Consider a training record checklist for the record keeping;
- The instructors only require training for the KSA instruction and assessments that they will deliver;
- KSA instructor training is focused on:
  - Practical training for assessments;
  - The ATO's standardized grading system.\*\*

<sup>\*</sup>or other suitable nominated person; \*\*EASA provides an example in GM2 ORA.ATO.230(a). ATOs may use other means.

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## Your next steps



Train the KSA instructors, send the updated ATO documentation to FOCA for approval or acceptance by

January 31st 2022\*

Learn more about Area 100 KSA, visit workshops at EASA if possible

\*Students who attend their last theoretical knowledge examination after this date will need to have completed Area 100 KSA. Consider implementing it before this date to avoid this situation.

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# **Change management**

To the CMMs and CTKIs in this room:

Yes, Area 100 KSA does seem complicated at first sight.

Remember the core of Area 100 KSA:

«[...] involve me and I learn»

You may implement Area 100 KSA in a pragmatic fashion – as long as your future pilots are prepared for their assessments on their first job and they truly are better pilots\*.

<sup>\*</sup>and as long as long as the record keeping is kept in order, of course.

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# Thank you.



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