

Mixed Implementation EBT



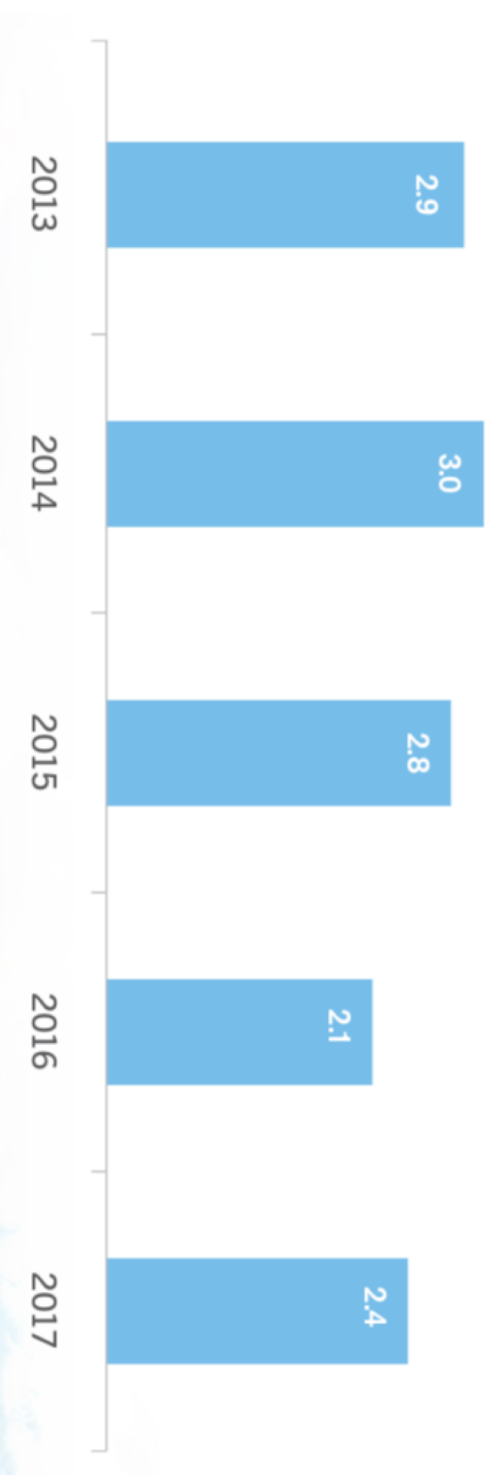
Phil Cullen
Chair, EBT Rulemaking Group

Identifying the **NEED**

How do you know if you are resilient?



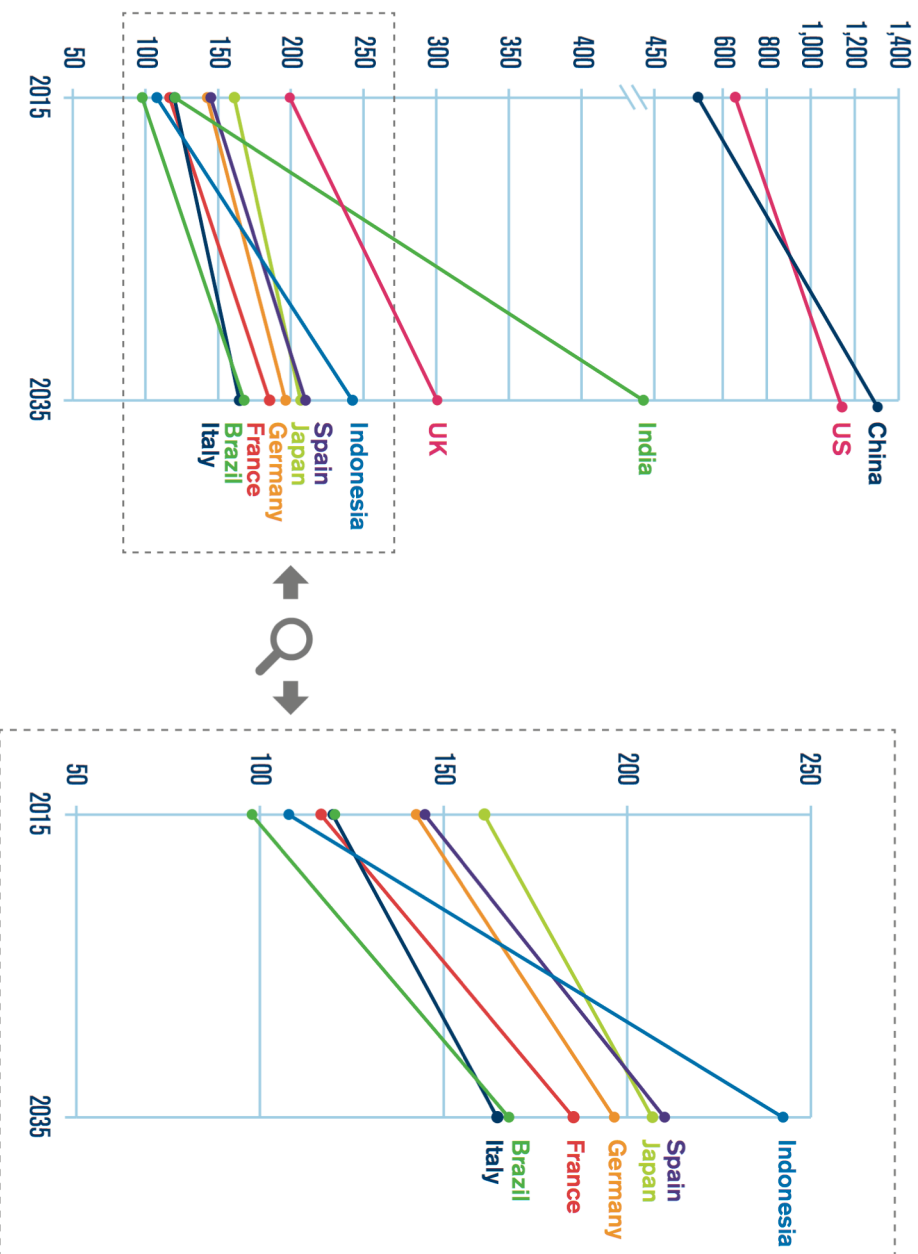
Identifying the **NEED**



Per million departures

ICAO Safety Report 2018

Identifying the NEED



Growth in passenger demand (per million passenger journeys)

IATA Forecast Press Release #55

Competency-based Training (CBT)



Centred around Training Topics

Adverse Weather
Automation
Competencies
technical
Compliance
Error Management
Go-Around
Manual Flying
Mis-managed
Monitoring
Unstable Approach



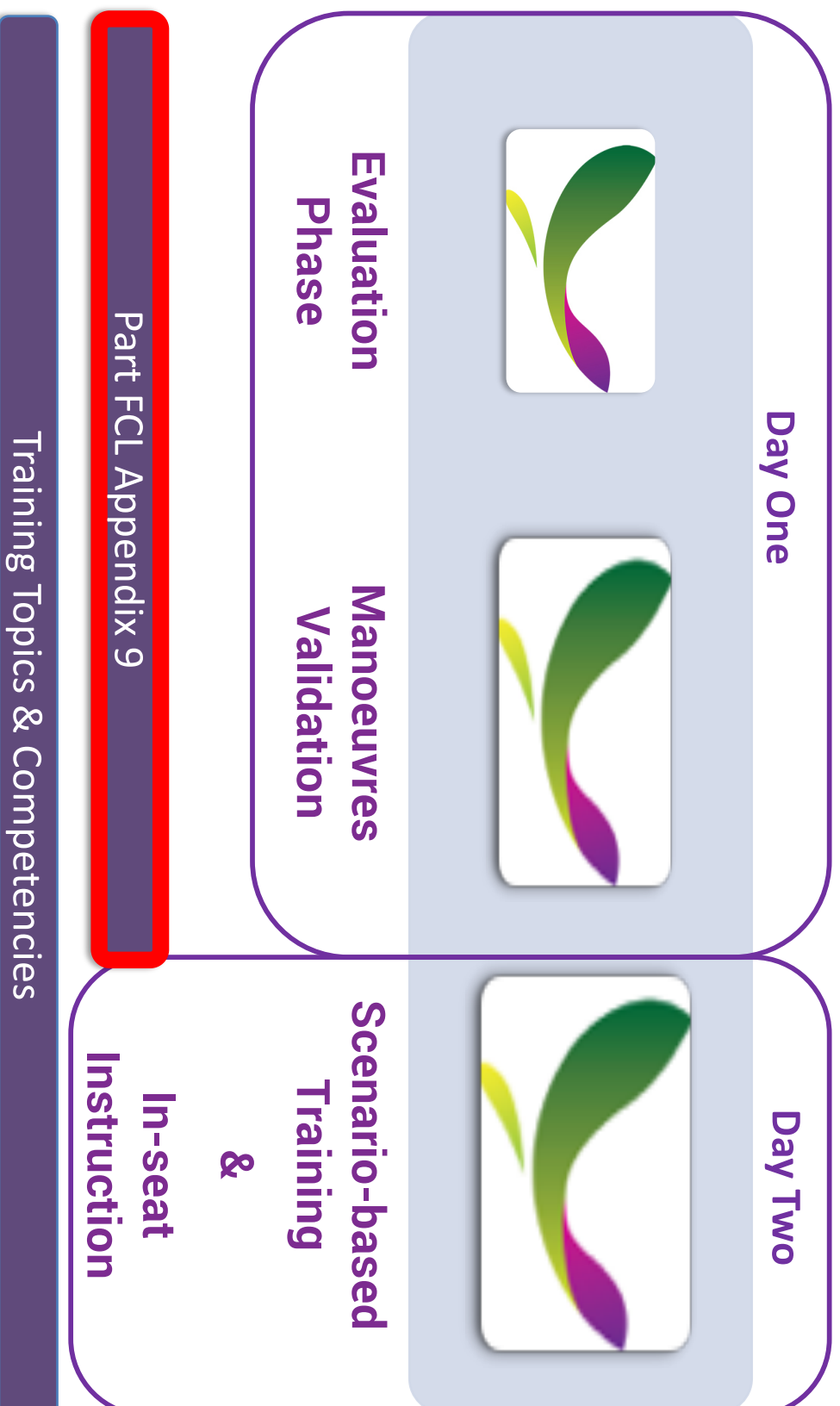
Data Report for Evidence-Based Training

July 2013

1st Edition

Engine Failure
& Smoke
Loss of Control
Crew Resource Management
Type Specific
Cabin Recovery
Cabin
Shear Recovery

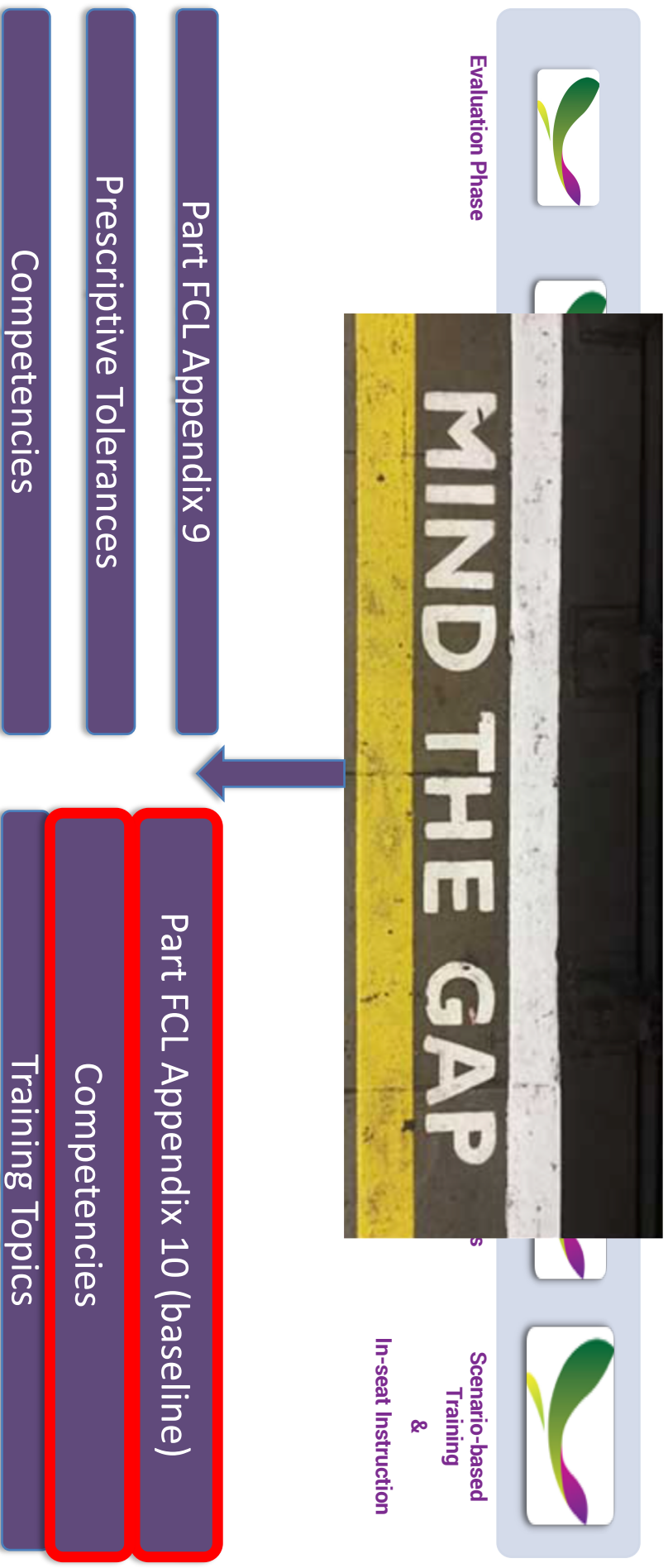
Mixed implementation EBT



Regulatory under-pinning (EASA)

Mixed implementation EBT

‘baseline’ EBT





Part FCL Appendix 9

Part FCL Appendix 10

Annex III (Part-ORO) to Regulation (EU) No 965/2012

ORO.FC.145 Provision of training

AMC1 ORO.FC.145(a)(3) Provision of training

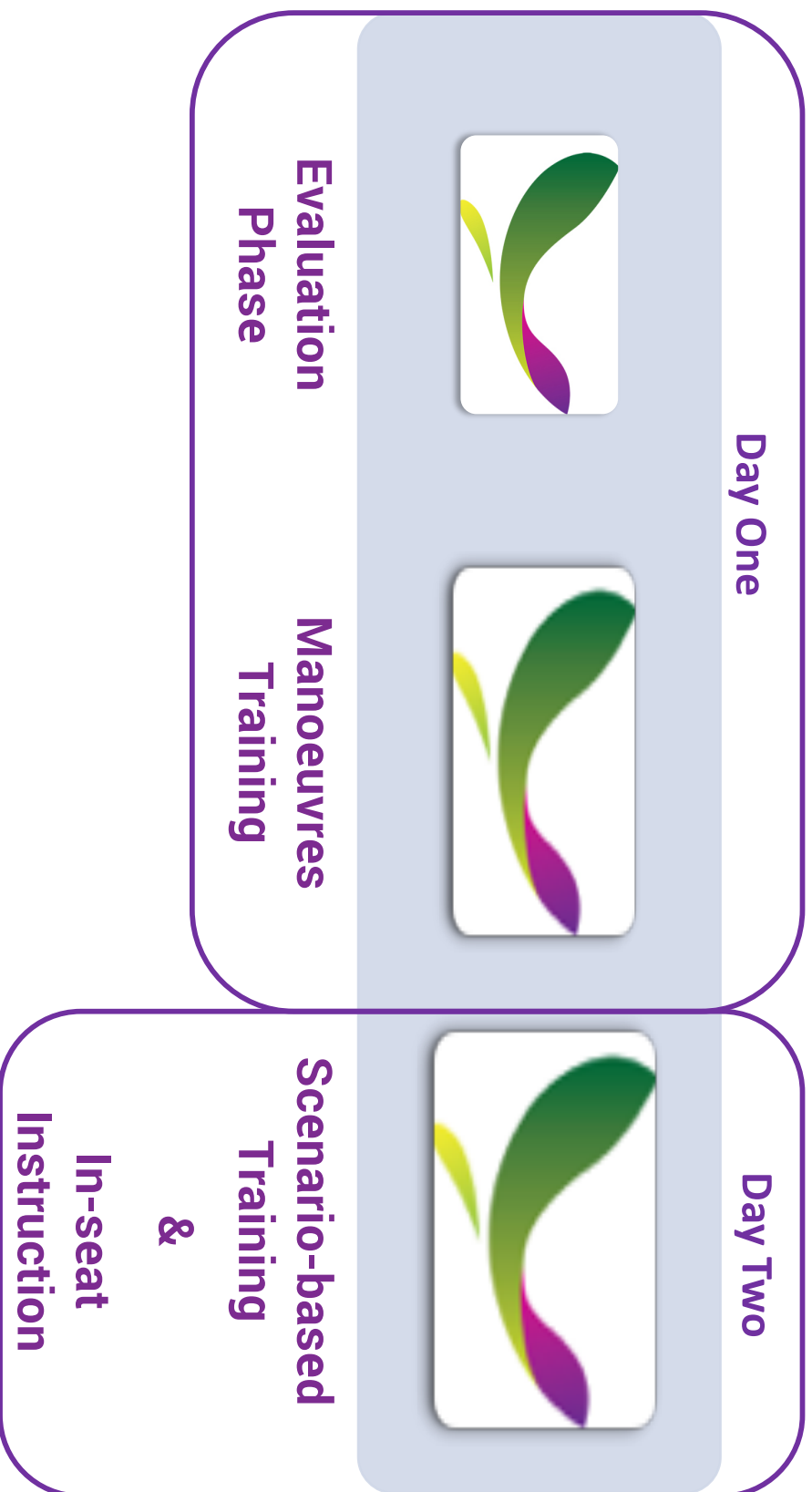
EBT INSTRUCTOR — INITIAL STANDARDISATION

AMC2 ORO.FC.145(a)(3) Provision of training

EBT INSTRUCTOR — RECURRENT STANDARDISATION

Training Topics & Competencies

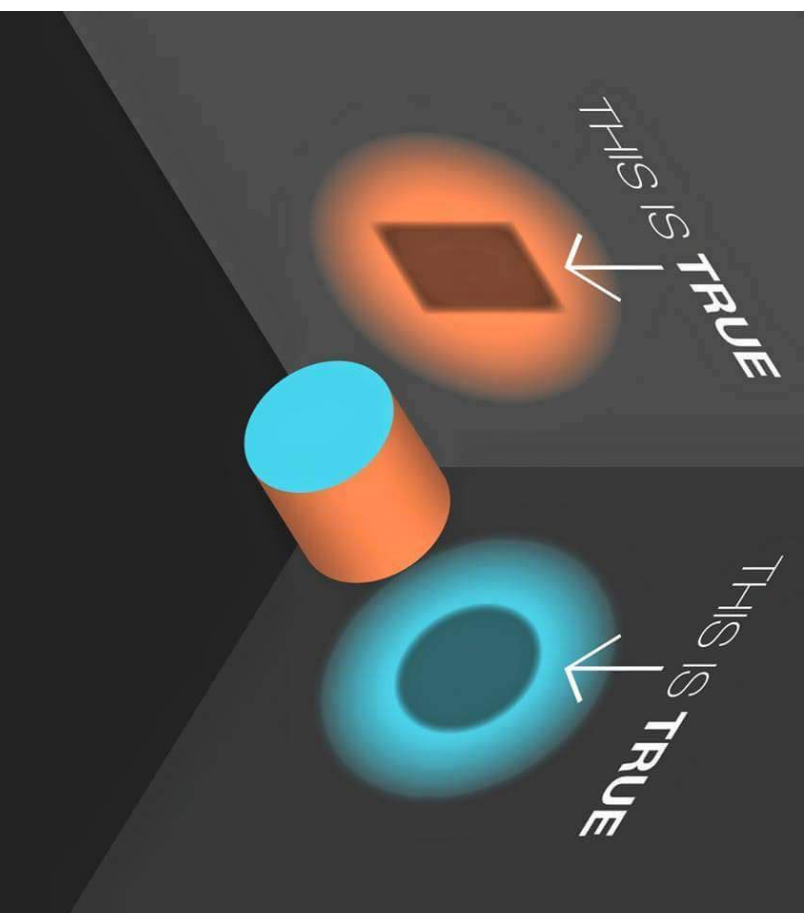
'baseline' EBT Module



Part FCL Appendix 10

Training Topics & Competencies

Seeing things from a different perspective



HOW...



Observable Behaviours

Situation Awareness

Develops effective contingency plans

Anticipates accurately what could happen

Flightpath Management -
Manual

Controls the aircraft with accuracy and smoothness

Problem-solving and
Decision-Making

Identifies and manages risks effectively



'AMC and GM to Part-ORO – Issue 2, Amendment 4'

The Annals of the Entomological Society of America [Vol. 52, No. 1, 1959]

RMT.0599

'Evidence-based and competency-based training'

Oversight guidance for transition to EBT

Mixed Implementation

According to:

GM1 ORO.FC.230 (a); (b); (f) Recurrent training and checking GM2 ORO.FC.A.245. ATOP

Page 1 of 4

Review of ORO.FC

Subtask of Evidence Based training

RM1.0599

EXECUTIVE SUMMARY

The European Aviation Safety Agency (EASA) (hereinafter referred to as the 'Agency') identified the need to ensure that aviation personnel have the right competences and their training methods cope with new challenges. This is one of the objectives of the European Plan for Aviation Safety (EPAS) 2018-2022

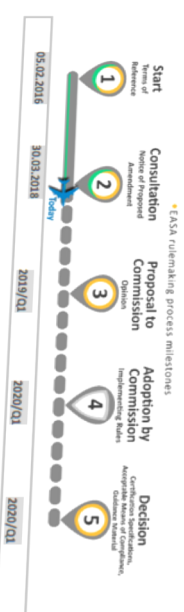
The objective of this NPA is, therefore, to update the flight crew training requirements in order to improve training and assessment of human factors, in particular the personnel competence. At the same time it provides additional efficiency in the field of flight crew training while achieving a smooth transition to competency based training.

ICAO, a joint effort with the International Air Transport Association (IATA), the International Federation of Air Line Pilots' Associations (IFALPA) and other industry partners, developed a new paradigm for competency-based recurrent training and assessments of flight crew, which is based on evidence (evidence-based training [EBT]). The EBT project is, therefore, a global safety initiative whose objective was to determine the relevance of existing pilot training according to aircraft operation. For that reason, ICAO published Doc 9957, Manual of Evidence-Based Training (first edition 2013) and other related documentation followed by EASA in 2015 with an ED decision addressing the mixed EBT implementation, that means introducing EBT while maintaining the current regulatory system. The EBT methodology identifies areas for improvement and allows the prioritisation of critical and relevant training topics which will guide the development of suitable EBT programmes. EBT is intended to enhance the confidence and capability of flight crews to operate the aircraft in all flight regimes said to be able to recognise and manage unexpected situations.

The NNA is a sector-specific European framework activity that will help train Aviation Learners' (ALs), Commercial Air Transport (CAT) operators and approved training organisations (ATO) to implement baseline EBT. The first step finished in 2015 with the publication of the EO document 2015/002/7 that provided baseline material to the Air Ops regulation to allow a 'mixed implementation' of EBT, and where the current Operator Proficiency Check (OPC) and License proficiency check (LPC) are maintained. This NNA proposes further changes to the Air Ops and Air crew regulations in order to allow the implementation of the baseline EBT, replacing OPC and LPC. This will allow a simple pilot of recurrent training. Further work is foreseen in RND059 to allow expansion of competency based training to Operator conversion course and initial up-grading and to other types of aircraft (eg. Helicopters and business jets).

SPACE for Phill Cuellen and Nadia and her RIA.

[The EXECUTIVE SUMMARY must fit on this front page]



The CBT Journey... TODAY



Mixed implementation EBT



Evaluation
Phase

Manoeuvres
Validation

Scenario-
based Training
&

In-seat
Instruction

Safety & Airspace Regulation Group
Flight Operations: Training Standards & Policy Group
Standards Document No. 24(A) Version 5
Policy and Guidance for Examiners:



Part FCL Appendix 9

Training Topics & Competencies

The CBT Journey... 2020



European Aviation Safety Agency

Notice of Proposed Amendment 2018-07(A)

Update of ORO.FC — evidence-based training subtask

RMT.0599

EXECUTIVE SUMMARY

The European Aviation Safety Agency (EASA) identified the need to ensure that aviation personnel have the right competencies and training methods to cope with new challenges. This is one of the most significant systemic issues in the European Plan for Aviation Safety (EPAS) 2018-2022.

● EASA rulemaking process milestones



The CBT Journey... 2020

‘Full’ Evidence-based Training



Evaluation
Phase

Manoeuvres
Training

Scenario-based
Training
&
In-seat
Instruction

Part FCL Appendix 10 (NEW)

Training Topics & Competencies

MYTHS

BUSTED



This sounds complicated

MYTHS



We're all on
this journey
together.



MYTHS

BUSTED

Me
WANTS
THE
DATA



WHY?



WHY?



Thank You

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