FLY BETTER





CBTA and Evidence based Training at Emirates

Captain David Swarbrick



Our challenge

EBT v Legacy

Competencies

Our
Path to
CBTA
and EBT







CBTA in conversion and Recency.

Is it worth it?

Considerations

Questions





- 157 routes / 84 countries
- Polar routes and ULRs
- Infrastructure in developing countries
- 102 nationalities / 75 languages

Our Challenge



Paradigm Shift Needed



versus





CBTA/EBT or Legacy



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EBT Legacy Task Analysis (ISD) Competency development Established in regulations Paradigm Shift Risk based using global Little Evidence evidence

Outcome of tasks

Emphasis on competency

based assessment



- CAR-AIR OPS
- Safety Decision







Data Report for Evidence-Based Training

July 201

st Edition



Jul

Manual of Evidence-based Training





1_{st} _{Ed}

Approved by the Secretary Genera and published under his authority

First fidition — 20

International Civil Aviation Organization



Competencies



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Application of Procedures

Communication

Aircraft Flight Path Control – Manual

Aircraft Flight Path Control – Automation

Workload Management

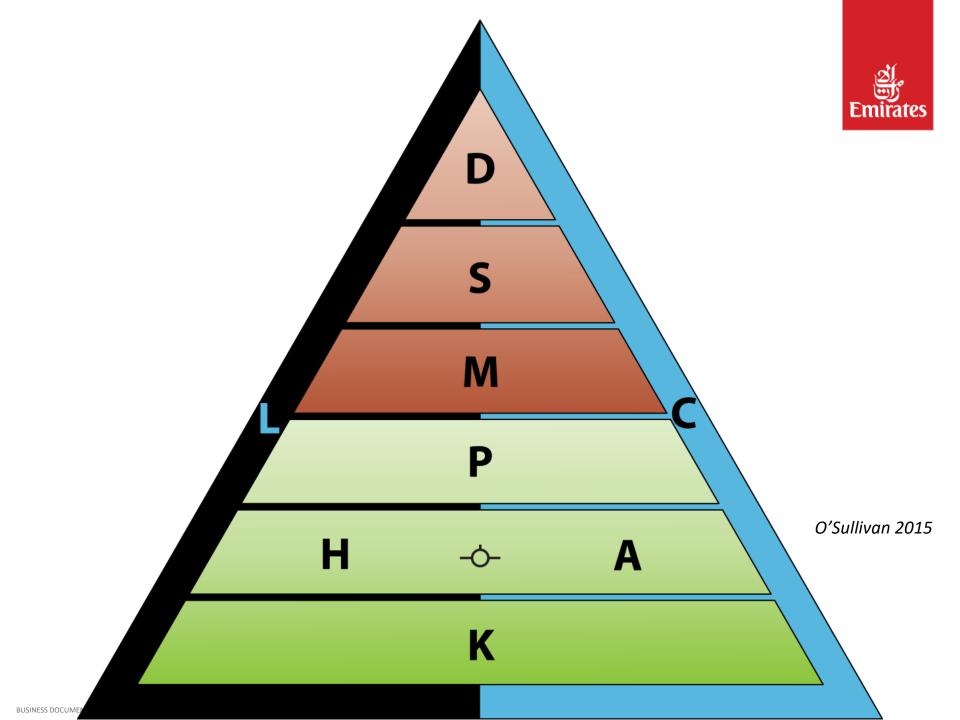
Problem Solving and Decision Making

Leadership and Teamwork

Situation Awareness and Management of Information

Knowledge

"A combination of knowledge, skills and attitudes (KSAs) required to perform a task to the required standard."



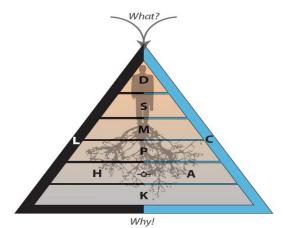




Normal Performance



Leadership



Communication



EK's path to EBT



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Step 1 - ATQP Task Based Programme – but allowed us to:

- i. Introduce nine-competency framework;
- ii. Introduce Grading System including measurement of training system performance;
- iii. Train instructors in adult learning and competency based training;
- iv. Allowed move away from legacy LPC/OPC and introduce Manoeuvre Validation and Line Orientated Evaluation.







Manoeuver Validation (Comply with LPC)

- Ensured the regulatory requirements met for the LPC;
- Allowed time for a realistic Evaluation (Competency Based) (LOE = OPC);
- Superseded by Manoeuver Training post EBT introduction.

EK ATQP programme



DAY 1	DAY 2	DAY 3	DAY 4

Technical and CRM	Line Orientated Evaluation and MV	Training elements in Scenario Based Training Style	Manual Handling
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Classroom FFS FFS FFS 3 Hours 3 Hours 3 Hours

Every Six Months

Training Day Philosophy

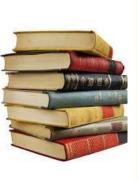


Study

2 hour classroom

3 hour FSTD training

1 hour reflection









6 Hour Training Event

ATQP

- Highly tasked based not designed around competency;
- ii. Cover all aircraft systems over three year period no resilience;
- iii. Check focused to meet regulatory requirements....

More needed to be done!





Step 2 - Mixed Implementation:

- i. Nine-competency framework and Grading System well established;
- ii. Instructors competent in adult learning and competency based training;
- iii. Allowed move away from legacy rule and introduce EBT methodology but still constrained for licencing purposes.





EK mixed implementation programme



DAY 1	DAY 2	DAY 3	DAY 4
Technical and CRM	Line Orientated Evaluation and MV	Scenario Based Training and In Seat Instruction (ISI)	Manual Handling
Classroom Workshop			FFS 3 Hours

Every Six Months

Mixed Implementation

- . Move away from legacy practices e.g. aircraft systems over three years;
- න් මාර් Emirates

- ii. Introduce Approach and Malfunction Equivalence;
- iii. Recurrent programme amended to be in line with baseline EBT for generation 4 Jets.

More needed to be done!



Step 3 - Full EBT:

- i. Live 01st August 2020 on all fleets;
- ii. Full baseline EBT;
- iii. LOE replaced with Evaluation Phase;
- iv. Manoeuvre Validation replaced with Manoeuvre Training Phase;
- v. Introduced under two year implementation plan with GCAA.





EBT programme (3 years)



DAY 1	DAY 2 EBT Session 1	DAY 3 EBT Session 2	DAY 4
Technical and CRM	Evaluation Phase and Manoeuvre Training	Scenario Based Training	Manual Handling (Not part of EBT programme)
Classroom Workshop or Online	FFS 3 Hours	FFS 3 Hours	FFS 3 Hours

Every Six Months (Module 1 – 6)



CBTA in conversion courses and Recency



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ICAO process

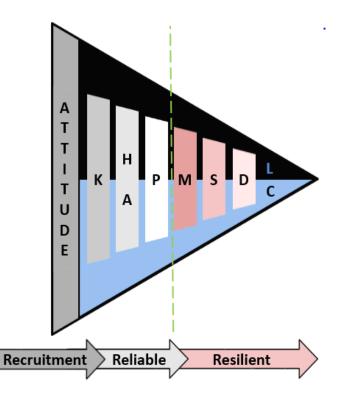


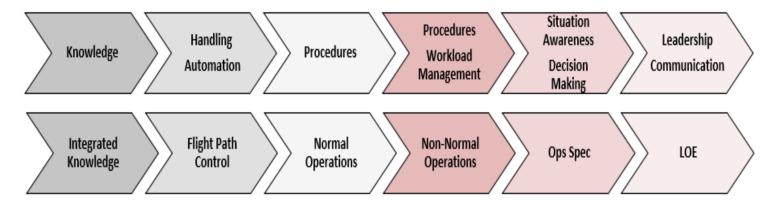
Workflow 1	Workflow 2	Workflow 3	Workflow 4	Workflow 5
ANALYSE Training need.	DESIGN Local Competency Based Training and Assessment.	DEVELOP The training and assessment materials.	IMPLEMENT Conduct the course in accordance with the training and assessment plans.	EVALUATE The course including the training and assessment plans.

Conversion Course



Workflow 1	Workflow 2	Workflow 3	Workflow 4	Workflow 5
ANALYSE Training need.	DESIGN Local Competency Based Training and Assessment.	DEVELOP The training and assessment materials.	IMPLEMENT Conduct the course in accordance with the training and assessment plans.	EVALUATE The course including the training and assessment plans.

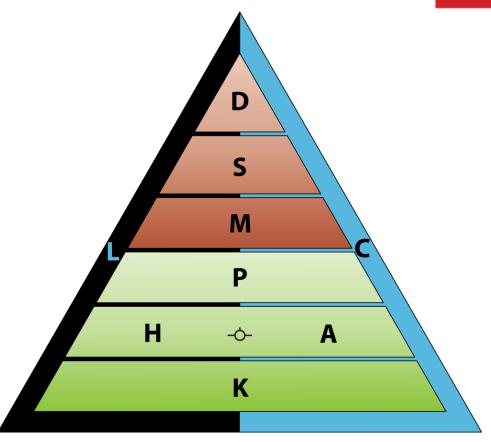




Recency Programme



Workflow 1	Workflow 2	Workflow 3	Workflow 4	Workflow 5
ANALYSE Training need.	DESIGN Local Competency Based Training and Assessment.	DEVELOP The training and assessment materials.	IMPLEMENT Conduct the course in accordance with the training and assessment plans.	EVALUATE The course including the training and assessment plans.



Target competencies on individual basis



Is it worth it?



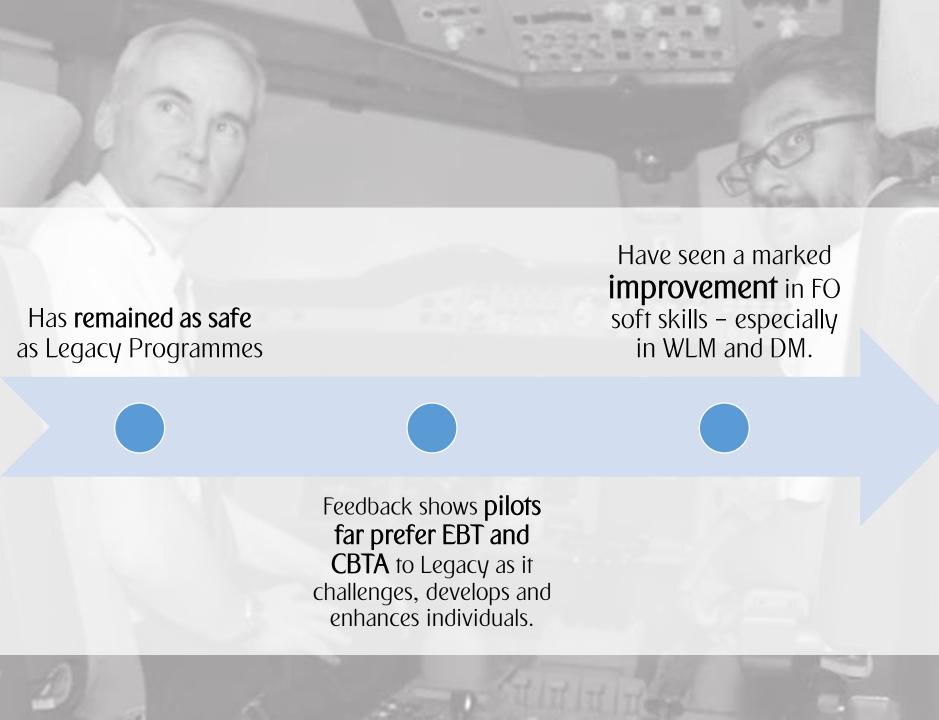
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Considerations:

- i. The adaption to the pilot need;
- ii. the benefits in term of training effectiveness and efficiency.





Considerations for EBT (and CBTA):



- i. An operator could implement EBT on the prescribed timescales if their aircraft types fulfil the generation criteria;
- ii. Standards/instructor training forms the **bulk of the work**;
- iii. EBT does not save money. The focus is on improved safety and operational efficiency;
- iv. EBT is an operators programme. Difficult to achieve where contracted training ATO is utilized;
- v. Operators may become distracted by the 'evidence'. Enhanced EBT has not been defined and removal of the baseline topics leaves operators exposed.
- vi. Essential for any operator to work very closely with the regulatory authority through the whole implementation process.







Questions?