

Multi-Crew Pilot License & Evidence Based Training

Training correlation – RPAS

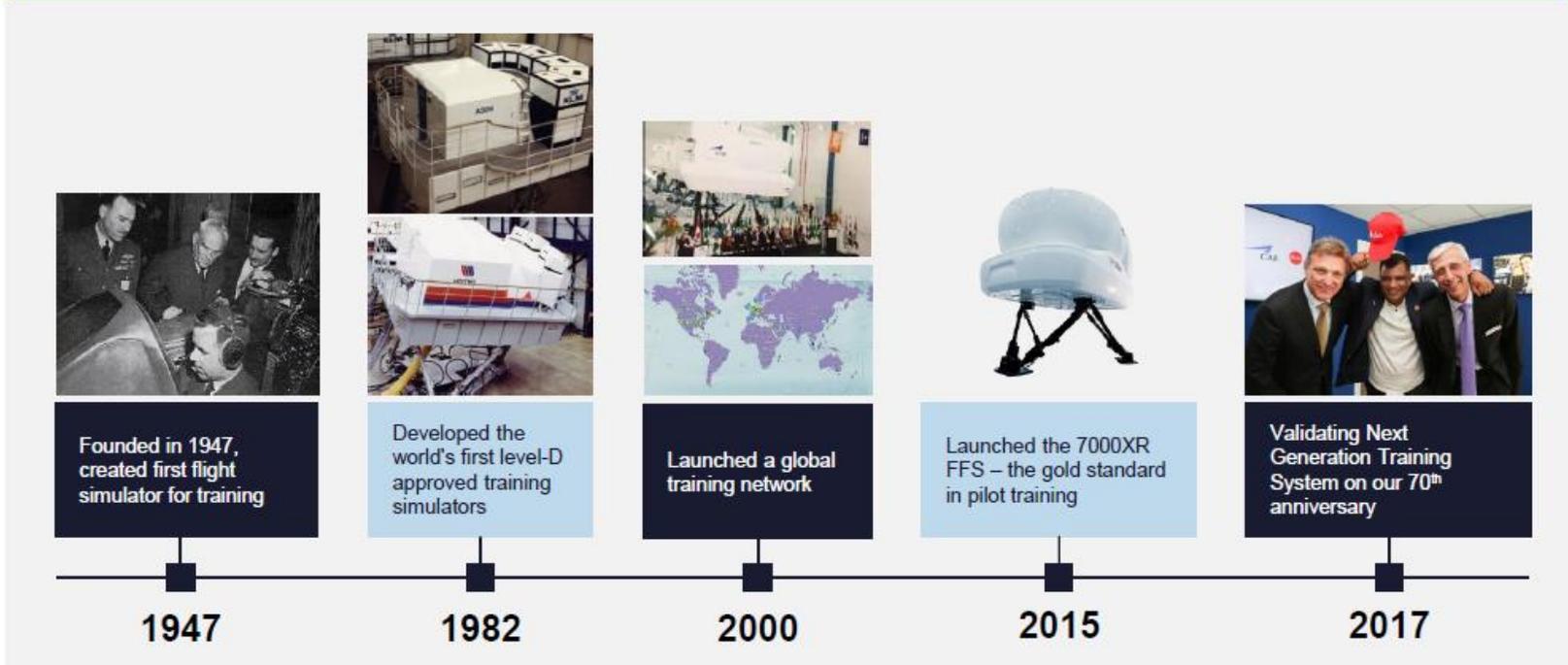
20 September 2017
Tim Schoenauer



Your worldwide
training partner
of choice



CAE AT A GLANCE – 70 YEARS OF TRAINING INNOVATION



As of FY17



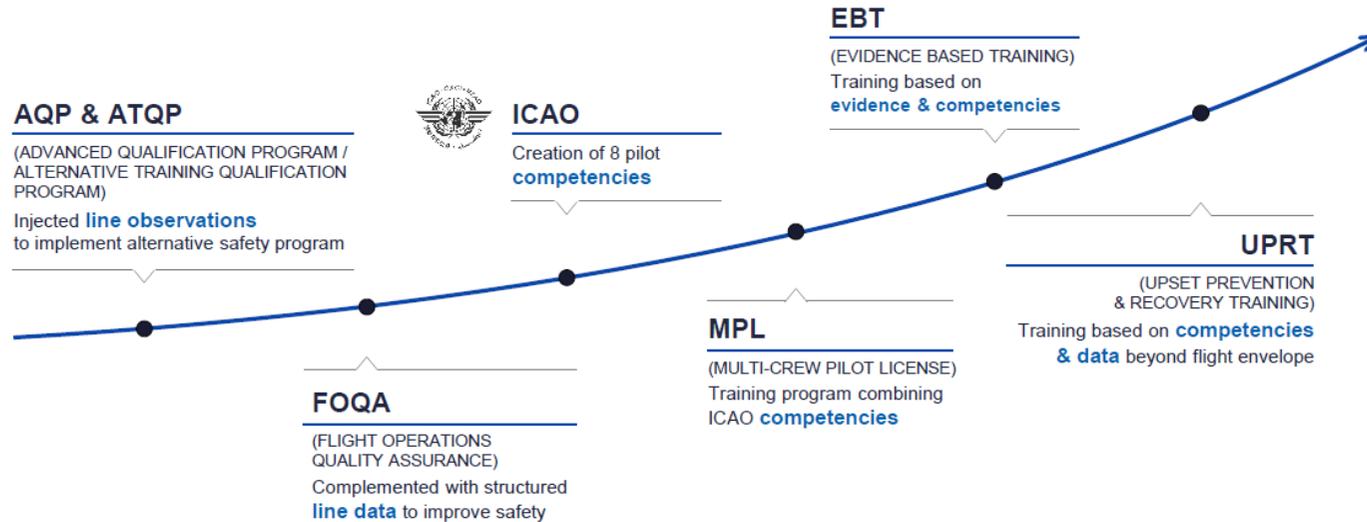
TRAINING PROGRAMS...DOES ONE SIZE FIT ALL?

Type of operation, location, systems, regulation, environmental, etc.

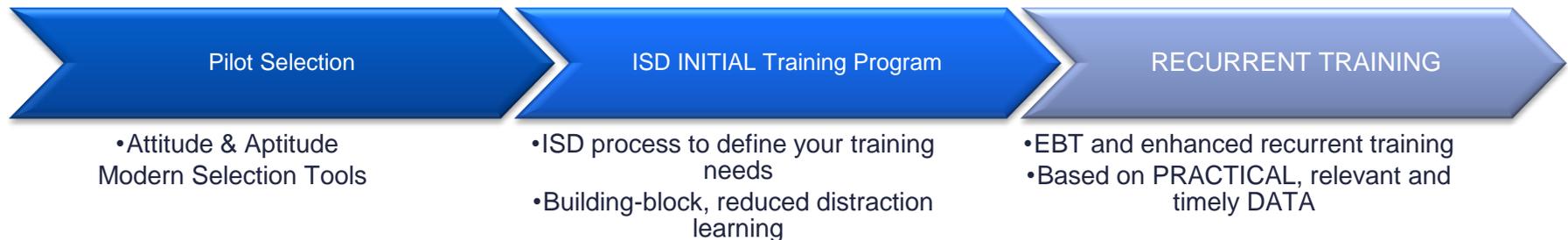


Instructional Design Process (ISD)

DATA & COMPETENCY FRAMEWORKS BEING INCREASINGLY LEVERAGED IN PILOT TRAINING

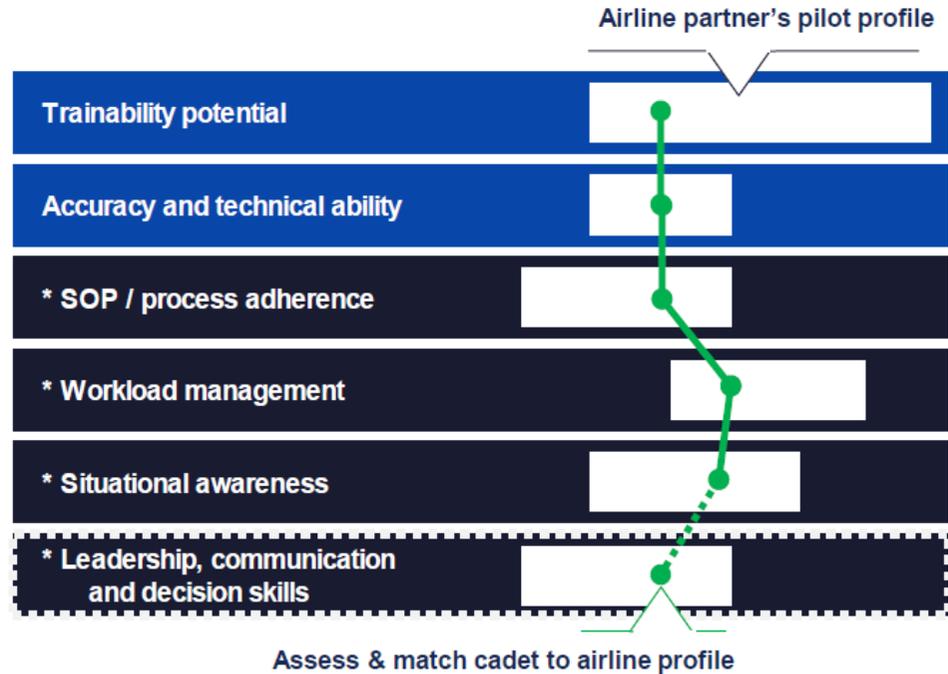


CAE is present with and a trusted partner of regulatory organizations and industry associations



Select the right Candidate. Train practical elements. Continuously Improve.

PROFESSIONAL CADET SELECTION PROCESS



RPAV Correlation:

- Hiring the right **ATTITUDE & APTITUDE** is the **FOUNDATION**
 - Use of modern Pilot selection tools

MULTI CREW PILOT LICENSE

What is MPL?

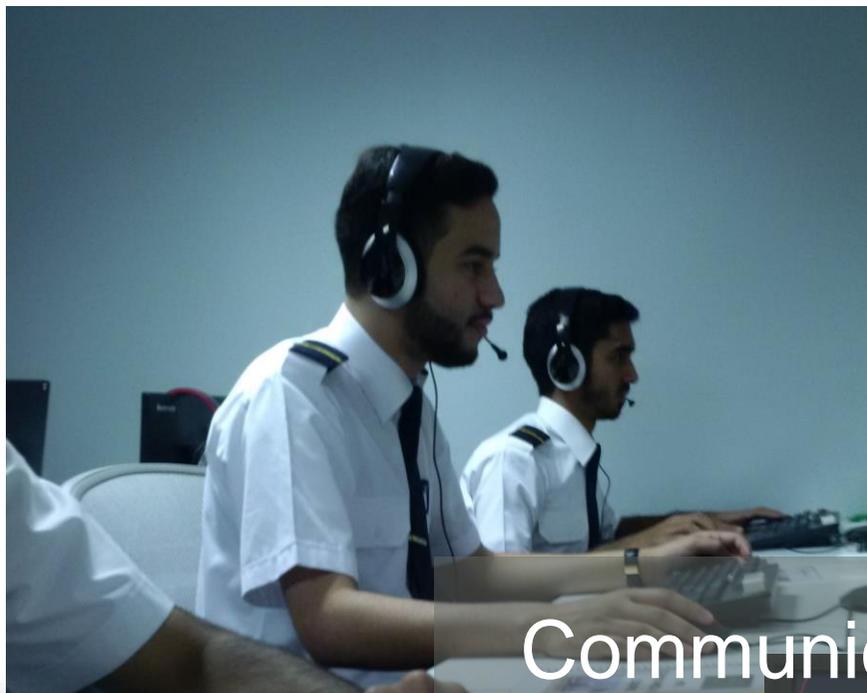


Course Comparison Table

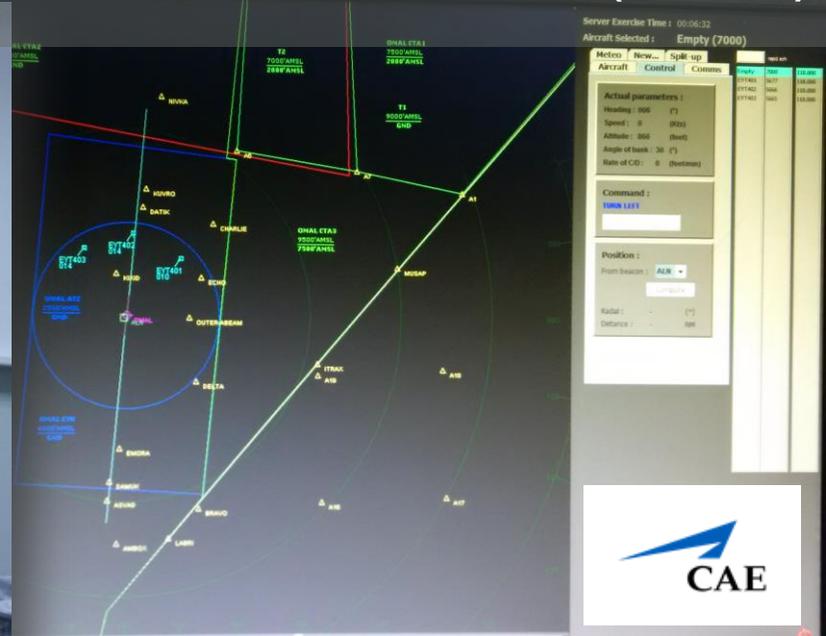
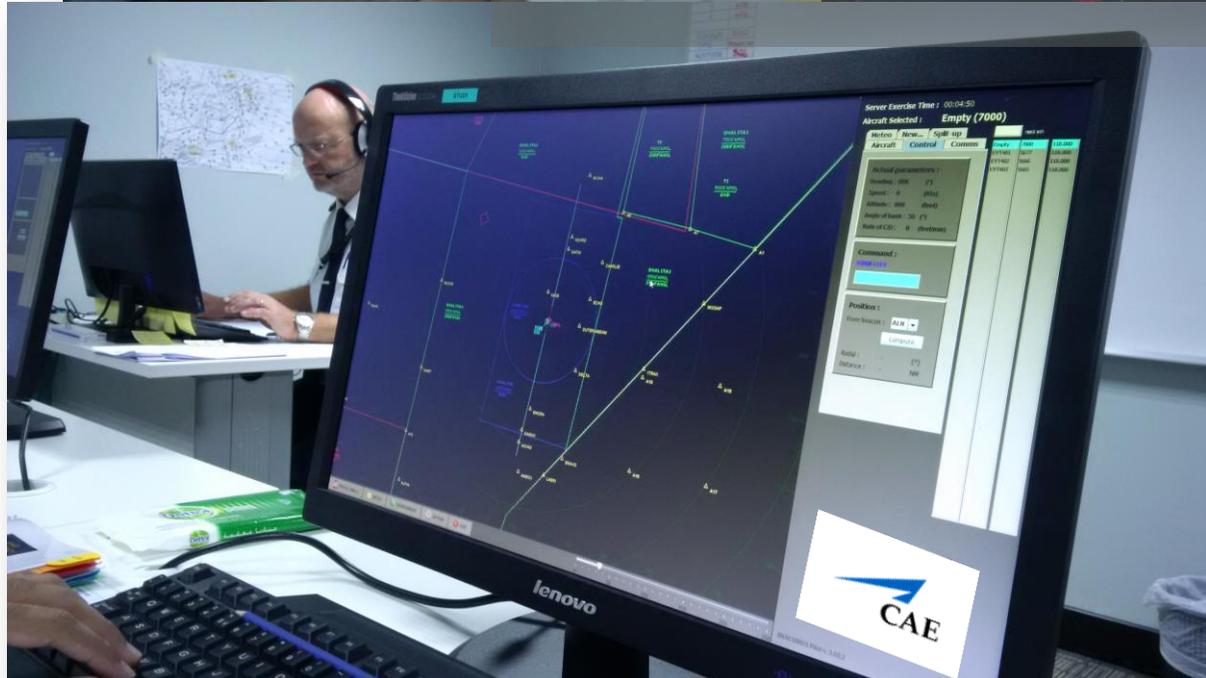


HOW? reduced distraction & building blocks

More RELEVANT way to train Multi-crew Transport Category Pilots



Communications Practical Course (CPC)





BASIC FLYING COURSE (BFC)

MULTI-CREW PILOT LICENSE

Initial training - correlations to RPAV

MPL is a minimally-prescriptive, customized **ISD**, training program based on:

1. Operational environment;
2. End-goal aircraft – from B747 to CRJ;
3. Training resources available;
4. Time and support from the airline and authority;



MPL is **competency-based** not task-based learning. Scenario-based training builds resilience – NCBI study¹ – *“The ultimate value of skills courses should be measured not by performance immediately after training, but by performance after a time delay, preferably in a realistic setting.”*

Performance assessment – **Relative & Absolute grading** throughout the course – evolution to ICAO Pilot Competency (8 competencies) mapping in later phases of training

Threat & Error Management (TEM) is embedded & reinforced throughout

RPAV Correlation:

- Customized training solutions for simple to complex RPAV
- TEM mindset **mitigating threats** & maintaining high situational awareness
- Continued assessment of Pilot competence based on ‘normed’ performance

¹NCBI Study - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1856544/>

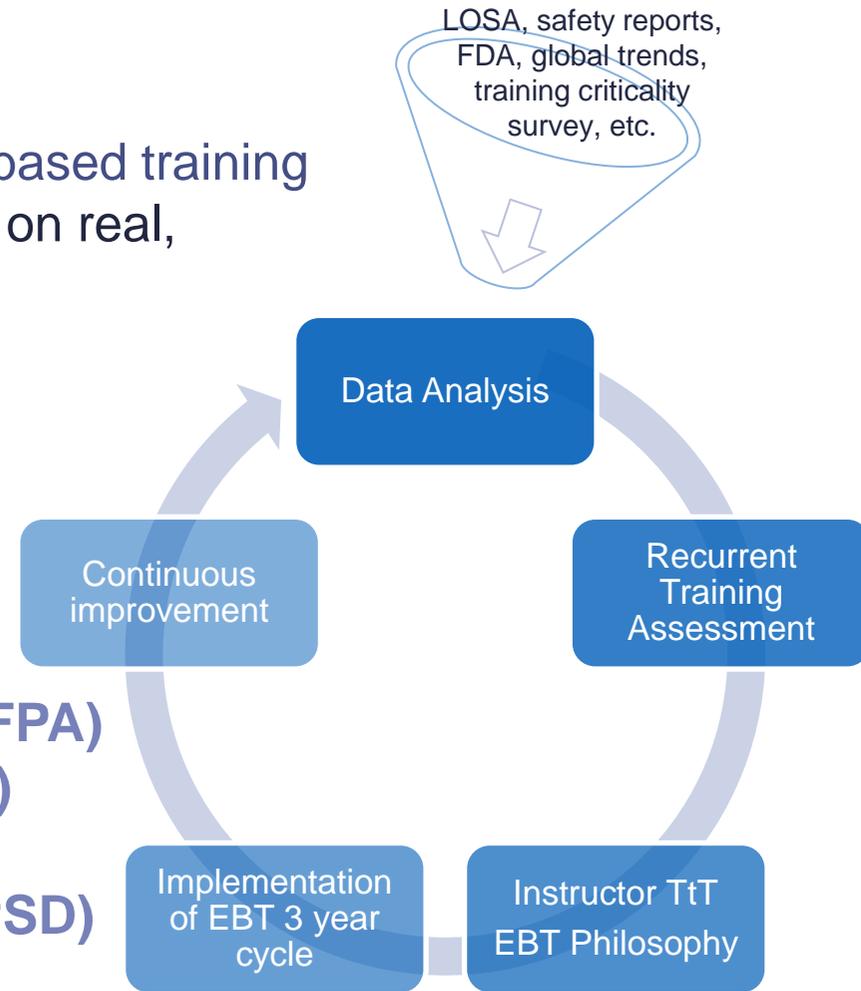
EBT – RECURRENT TRAINING

EBT Fundamentals:

1. Profile - Evaluation, Maneuvers, Scenario-based training
 - ‘Resilience-based LOFT training based on real, practical data’
2. Facilitated debriefings
 - Grounded self-actualization

Training Pilot Competencies:

1. Application of Procedures (APK)
2. Communication (COM)
3. Flight path management automation (FPA)
4. Flight path management manual (FPM)
5. Leadership & teamwork (LTW)
6. Problem solving & decision-making (PSD)
7. Situation awareness (SAW)
8. Workload management (WLM)



RPAV Correlation:

- Data Driven training is an effective way to train resilience
 - Pilot competencies **DO APPLY** to RPAV operations
- Proper **Train the Trainer** for your Instructors is **CRITICAL**

TAKEAWAYS

- Competency-based training is training to **proficiency** (not task training). **Practical, scenario-based training trains resilience**
- One-size training **does NOT** fit all. Modern training solutions must meet the demands of **YOUR** organization
- Properly designed training programs are more **relevant** and require continuous improvement
- ICAO PANS Training implementation guides (9868 PANS Training) details the **Instructional Design Process**
- Lessons learned...consider an experienced training partner



Thank you!

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