Next-Generation Training Solutions for Next-Generation Aviation Professionals

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ICAO NGAP – Looking Beyond

- ICAO, regulators, academia, OEMs, airlines, and training industry to be commended

- Global airline market will recover
  - Not a matter of "if" there will be recovery
  - Only a matter of when, how strong, and how growth can be sustained

- Signs that the market may have bottomed out, starting a gradual positive trend
Return to Growth Trend

- At the moment, a surplus of qualified aviation professionals
- As growth "returns to trend,” the pool of furloughed pilots, technicians, cabin crew, and other qualified professionals may be quickly depleted
- An infusion of new personnel
- How will the training industry provision the new aviation professionals we will need in the next generation?
A Methodical, Rigorous Approach

- A methodical approach to meeting challenges
  - Outcomes
  - Competencies and performance levels
  - Operational environment
  - Knowledge, skills and attitudes
  - Demographics
  - Initial and continuing training

- CAE has been through this process with the MPL – with Transport Canada and sponsoring airline AirAsia

- CAE has been using a rigorous instructional systems design methodology for many, many years
Next-Generation Elements

- Today's aircraft are more sophisticated
- Today's airspace is more congested
- Competition, economic and environmental factors are driving operators to be more efficient
- The next generation of aviation professionals are far more technology savvy
The Romance of Flying

- Visionaries such as the Wright Brothers … Santos-Dumont … Alcock and Brown… excited the world's imagination as they pursued their dreams
- Entrepreneurs followed – from Juan Trippe of Pan Am to Tony Fernandes of AirAsia
- Aviation profession thrilling and prestigious
- Recapture and encourage the passion
A Safety Culture

- We must instill a culture of quality and safety
- Safe flight after safe flight after safe flight
- Our mission is to develop the methods and processes that will produce consistently high-quality aviation professionals
Harmonisation

- ICAO document 9625, revision 3, for FSTDs
- How to best apply the advanced technology ... so pilots can become more competent and more efficient
- We urge the NAAs to implement the new ICAO standards as soon as reasonably possible
- Not just training devices – principles of harmonisation apply as well to licencing and training standards for pilots, technicians, and other aviation professionals
- Encourage forming an independent international cooperative association ... impartial, consensus counsel on civil aviation training issues on a continuing basis
More for Less

- Challenge of simulation and training organisations is to continue to develop innovative methods and training tools.

- Temptation to cut corners to reduce costs.

- Could cost us all dearly in the long term … everyone's reputation loses.

- We should all be striving to deliver more for less … in good times and in lean times.
Training the Tech-Savvy Generation

- Intelligent adoption of new and emerging technologies
- Tested and vetted against the training tasks required and the competencies to be achieved
- Next generation of aviation professionals is computer literate from an increasingly younger age
- If we attempt to train them with the same traditional tools and prescriptive requirements ... may lose their passion for aviation
Change … with Quality and Safety

- As the aircraft change …
- As the airspace changes …
- As the demographics of aspiring aviation professionals change …
- We must also change how we train – our regulatory structure, our methodologies, and our tools
- What we must never change are our high standards of quality and safety
Thank You!