

Aug 14th, 9:00 AM - 10:15 AM

Enhanced Learnability of Flight Techniques Through the Introduction of Targeted Observation Flights with Ab-Initio through Advanced Flight Training Candidates

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Carter, Gary A. M.Div.; O'Toole, Nicola M. M.S.; and Robbins, John M. Ph.D., "Enhanced Learnability of Flight Techniques Through the Introduction of Targeted Observation Flights with Ab-Initio through Advanced Flight Training Candidates" (2018). *National Training Aircraft Symposium (NTAS)*. 18. <https://commons.erau.edu/ntas/2018/presentations/18>

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Through the Introduction of Targeted Observation Flights with Ab-Initio through Advanced Flight Training Candidates

By:

Nicola O'Toole, Dr. John Robbins, Gary Carter



Flight Training Success: How is it measured?

- The industry needs pilots (AOPA and others)

“
29,000 Pilots who will retire from cockpits at major airlines within the next 10 years

“
117,000 New pilots who will be required in North America over the next 20 years, according to Boeing
600,000 worldwide

- Therefore: How can the demand be met:
 - Effectively and efficiently

Observation Flights To Increase Success

- One Key Element in successful flight training
 - Successful = Effective + Efficient
- How is an observer conducted?
 - Passive
 - Structured / Targeted
 - Observer as a crewmember



Our Experience

- Practical Side – Observations augment learnability
- Academic Side – Observations help with knowledge assimilation, retention, understanding, and correlation
- There is little empirical data, however, there are vast amounts of anecdotal data from testimonials.
- In addition, our experience.

Benefits

- Costs
- Proficiency
- Decision Making
- Time to Certifications/Ratings
- Safety
- CRM
- Less PIC but MORE flight experience.

Drawbacks

- Potential Negative Transfer of Learning
- Time Investment
- Instructor Limiting Feedback During Debrief
- Different Aircraft “Feel”

Where do we go from here?

- Definitive need to conduct qualitative and quantitative research to validate anecdotal data!
- Keep encouraging our students to observe!
- Develop Industry “buy-in” regarding observations and their benefits

Questions?

THANK YOU!