

FAA's Pilot Training Initiatives

Asia Pacific Workshop on Flying at High Altitude under Adverse Weather Conditions

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Overview

- **Rulemaking**
 - Upset Prevention and Recovery Training
 - Loss of Reliable Airspeed
- **Inspector Training, preparing for UPRT**
 - An open invitation



Rulemaking – Part 121

Qualification, Service, and Use of Crewmembers and Aircraft Dispatchers Final Rule

- Published on November 12, 2013 with 5 years to implement most provisions (March 2019)
- Amends certain regulations for part 121 training programs
- Requires pilot training for:
 - Stall Prevention and Stall Recovery from Full Stall;
 - Upset Prevention:
 - Manually controlled slow flight;
 - Manually controlled arrivals and departures;
 - **Manually controlled Loss of Reliable Airspeed;** and
 - Pilot monitoring;
 - Upset Recovery (Nose High, Nose Low, Overbank)



Rulemaking - Part 60

Change 2 and FSTD Directive #2

- Initiated to address simulator fidelity
- Codified:
 - Full stall simulator evaluation criteria
 - Upset prevention and recovery training IOS enhancements
 - Enhanced airborne icing modeling
- Published March 2016
- Effective March 2019



Advisory Circular 120-111

SCENARIO 2: LOSS OF RELIABLE AIRSPEED

INSTRUCTOR ROLE: Implement scenarios that result in erroneous airspeed or loss of airspeed indications.

OBJECTIVE: The pilot will recognize the airspeed discrepancy, determine airspeed data is erroneous, and apply the appropriate non-normal procedure while maintaining airplane control using **pitch and power targets**.

EMPHASIS AREAS

- Recognition and crew coordination.
- AOA management including available AOA indications.
- Maintain awareness of and manage flightpath and energy.
- Aural and visual warnings (environment and airplane cueing).
- Completion of the appropriate non-normal checklist.
- **Surprise and startle.**
- Manual flying skills.
- **Effects of altitude on control inputs.**



Loss of Reliable Airspeed Demo



5 year Implementation

- **Air Carrier Invest Resources**
- **Instructor/Course Developer Training**
- **Training Program Development**
- **Simulator Modifications**
- **Training Program Approvals**





Inspector UPRT

Academics (5 hrs)



Simulator exercises (2 hrs)



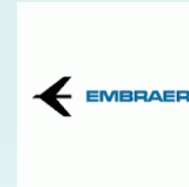


Industry UPRT



Academics (5 hrs)

Simulator exercises (2 hrs)



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Additional Guidance

- **Keeping pilots engaged—**
 - Pilot monitoring training & procedures (AC 120-71)
- **Maintaining pilot manual handling skills—**
 - Targeted skill development during training
 - Skill retention during flight operations (SAFO 13002, SAFO 17007)



Thank you

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