

Power Hour Lessons

Preparing Students for Emergencies

- Train the response and the factor in the startle factor.



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Overview

General Considerations

- 1. There isn't always a light or alarm.
- 2. Developing a running checklist FREEDA
- 3. Systems knowledge lets you identify problems, solutions, and outcomes.
- 4. Memory items.
- 5. Recency isn't enough in most cases. Flight reviews and airplane checkouts are far between for most pilots.
- 6. Airlines and Charter are typically on six month recurrent training and proficiency checks for pilots.
- 7. The startle response Panic, Denial, Acceptance. Very individual. It is reduced by drilling the response.
- 8. Make a flight review about being operational Why evaluate a steep turn? Emergencies and operations at airports and LOC should be 80% of the review.
- 9. Specific Emergencies Vary with the Complexity and ergonomics of the airplane. Old Barons had a switch for the gear right next to the flaps. Throttles and propeller levers were reversed.

Engine failures

- 1. 90% fuel related Fuel, Primer, mags.
- 2. Overshooting is more likely in a planned approach.
- 3. Maximum and minimum glide angles should be taught with reference to the horizon.
- 4. Engine failures on takeoff Firm push required Teach at altitude or in an AATD.
- 5. Ruts, rocks, and soggy soil are difficult to see until very low like tire marks on a runway.
- 6. Ditching Almost every ditching resulted from a fuel problem.
- 7. Teach partial power failures. Determine the vibration level and if the engine should be shut down.



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Fuel system problems

- 1. If you want to work for an airline, you won't make a difference there either. You are not paid on merit.
- 2. Everyone at an airline is always looking for the next upgrade, base, etc. too.
- 3. You will get burned out there, too, but you'll be paid better and have more time off.
- 4. You are young, and so are your co-workers.

Electrical system problems

- 1. What is normal behavior?
- 2. Before starting Voltage battery value or less, ammeter discharging.
- 3. After starting with the alternator on, the Buss voltage is higher than that of the battery, and the ammeter shows a high rate of charging.
- 4. As time progresses the ammeter shows a slight charge or zero.
- 5. The ammeter shows a continuous high rate of charge—overcharging. Boiling acid and battery rupture/ fire are possible.
- 6. Alternator or belt failure Ammeter discharging. Buss voltage equal to or less than the battery.
- 7. Corrective actions using the checklist.

G1000 failures

- Garmins instructions on loss of primary flight instruments only addressed a display failure, not an AHRS
 or ADC failure.
- 2. Use an AATD to develop recognition and pilot proficiency.
- 3. G1000 PP Covers
- 4. https://drive.google.com/file/d/1bhyUwOZv9Br0OJdg3DQBSVdDGuEbv-yP/view?usp=drive_link
- 5. Autopilot failures.

Fires

- 1. Outside- Shut off the fuel and land. Attempt to put out.
- 2. Wing fire slip to move the flames away. Land Avoid descending at airspeeds above Va structural problems.
- 3. Cabin fire—extinguisher. Using the extinguisher will impact one's ability to see—initially close vents. After the extinguisher and fire stop, ventilate the cabin.
- 4. Electrical fire Master off, extinguish the fire, and vent the cabin.



Power Hour Lesson Outlines

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Power Hour Lesson Outlines



Power Hours:

April 6th

- Teaching Unusual Attitudes and Upset Recovery.
- By Upset Expert Marc Kramer..

- **April 13th** Taking the next steps twards a new rating...
 - What to consider Panel Discussion.



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Inital CFI Classes:

- 1. April 15th | Las Vegas and Online | 3 Seats open 4 Live Stream Spots Available.
- 2. May 6th | Miami or Online | 4 Seats open 4 Live Stream Spots Available.
- 3. June 3rd | Palo Alto or Online | 4 Seats open 4 Live Stream Spots Available.

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