



NATIONAL ASSOCIATION OF FLIGHT INSTRUCTORS

# MENTOR

*LIVE*



# Challenge & Response:

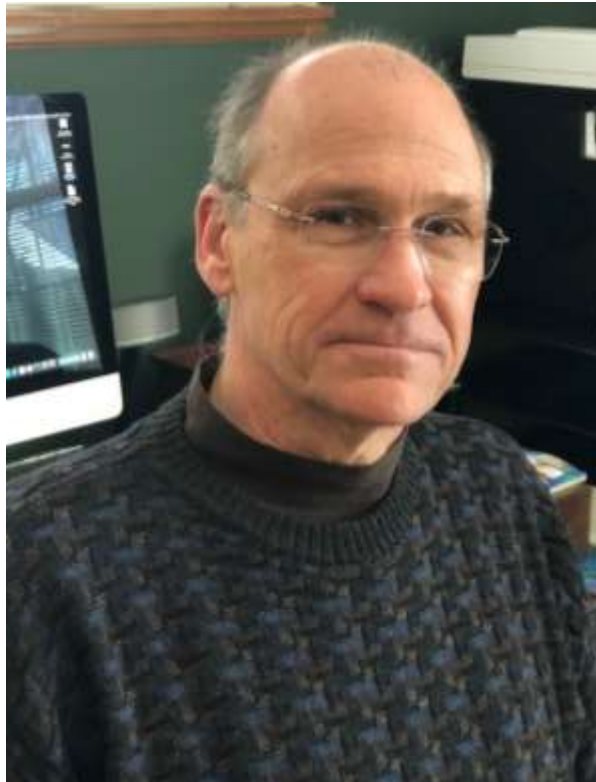
Practical Flight Deck Insights for GA

Paul J. Preidecker  
FlightDeck Insights

Susan Parson  
FAA Flight Standards

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# Tonight's Hosts



Paul J. Preidecker



Susan Parson

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# Whose Job is Harder!?



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# Whose Job is Harder!?

Non-Commercial General Aviation	Part 135 – Part 121
Often single pilot	Virtually always a crew environment
Often unfamiliar airports	Same airports help with repetitive skill building
Self-planning all aspects	Dispatch plans flight and fuel
Rental car or crew car; make own arrangements	Hotel arrangements made for you - hotel van meets you at the curb.
Schedule can be more relaxed	Compact schedules during the day
Lower speeds are typical of prop GA	Higher operating speeds
You have to do it all	Pilot not flying is on the radio
May encounter differences if renting	Flight deck is well known and predictable
Performance limits WX avoidance strategies	Able to fly above or around most WX
You have to arrange for maintenance	Maintenance deals with aircraft discrepancies
Operations at non-towered fields common	Mostly operate at towered airports
You need to determine your rest requirements	Part 117 rules require rest periods
Operating procedures vary greatly	Standard call outs and profiles and checklist responses



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# Whose Job is Harder!?



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# Flight Deck Insights for GA



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# Standard Operating Procedures



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# Flight Deck Insights for GA

## Plan....everything!

Know before you go:

### Pilot

- Qualified? Current? Proficient?

### Airplane

- Performance - Equipment

### Environment

- Airports, Airspace, Weather

### External factors



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# Flight Deck Insights for GA

## Plan....everything!



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Know before you go:

**Pilot**

- Qualified? Current? Proficient?



# Flight Deck Insights for GA Plan....everything!



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Know before you go:

**Airplane**

- Performance - Equipment



# Flight Deck Insights for GA

## Plan....everything!

Know before you go:

### Environment

- Airports, Airspace, Weather



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# Flight Deck Insights for GA Plan...everything!

Know before you go:  
**External factors**



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# Flight Deck Insights for GA

## Brief - Crew (You) and Passengers



- Self-Briefing
- Crew Briefing
- Passenger Briefing

Passenger SAFETY Briefing	
<b>S</b>	Seat belts fastened for taxi, takeoff, landing. Shoulder harnesses fastened for takeoff, landing. Seat position adjusted and locked in place.
<b>A</b>	Air vents (location and operation). All environmental controls (discussed). Action in case of any passenger discomfort.
<b>F</b>	Fire extinguisher (location and operation).
<b>E</b>	Exit doors (how to secure; how to open). Emergency evacuation plan. Emergency/survival kit (location and contents).
<b>T</b>	Traffic (scanning, spotting, notifying pilot). Talking ("sterile cockpit" expectations).
<b>Y</b>	Your questions? (Speak up!).

# Flight Deck Insights for GA

## Do -

### Follow Checklist(s)

- Printed – Flow - Mnemonic

### Fly Profiles

- Same thing – same way – every time



# Flight Deck Insights for GA

Do -

## Follow Checklist(s)

- Printed – Flow - Mnemonic



CREW	
Cessna 172B-H <i>Sighawk</i>	
<b>PREFLIGHT / BEFORE DEPART:</b>	<b>AFTER TAKEOFF:</b>
1. Fuel / Performance	2. Climb / Cruise
2. Air Traffic	3. Climb / Cruise
3. Air Traffic	4. Climb / Cruise
4. Air Traffic	5. Climb / Cruise
5. Air Traffic	6. Climb / Cruise
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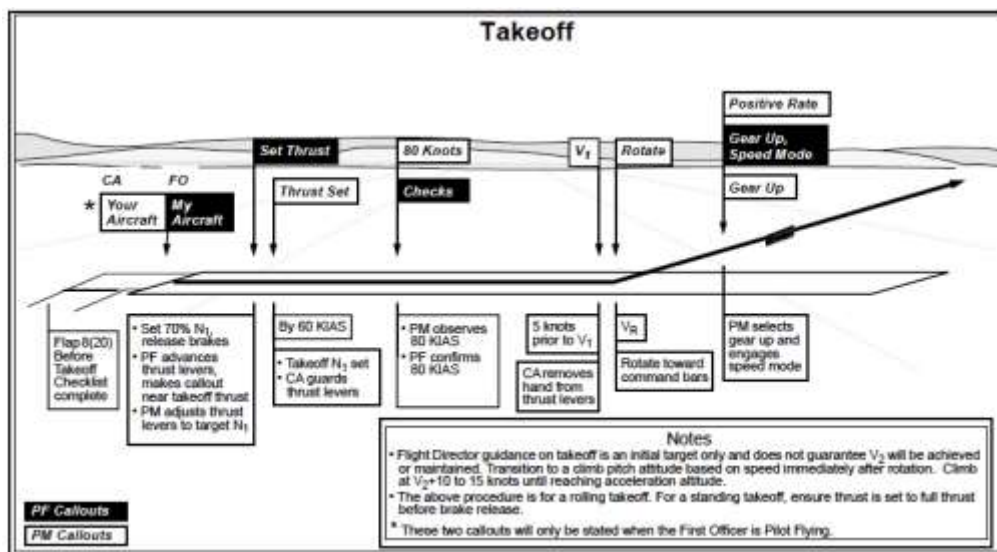


# Flight Deck Insights for GA

Do -

## Fly Profiles

- Same thing – same way – every time



# Flight Deck Insights for GA

## Review ... situational awareness



### Callouts

- Headings, Altitudes, Frequencies, Waypoints

### Cross-check

- Verify

# Flight Deck Insights for GA

## Review ... situational awareness



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### Callouts

- Headings, Altitudes, Frequencies, Waypoints

PF	PNF
Simultaneously : Thrust Levers - Advance to Go-Around EPR  Call-out "Go-around, Flaps 15"  Rotate to go-around attitude.	Monitor EPR Indication.  Position Flap Lever to 15 and monitor flap retraction  Adjust thrust as required.
When a positive rate of climb indicated, call "Clear Up"	Announce "Positive Rate" when it is observed.  Position the Landing Gear Lever UP and verify normal retraction.
Cross-check flight instruments for proper indications.	
At 1,000 feet AGL (normally):  Call for "Climb Thrust".	Set climb EPR. Announce "Climb thrust is set"
Continue to accelerate and initiate flap retraction on flap/speed schedule	Position FLAP lever as directed. Monitor flaps and slats retraction.
Call "After Takeoff Checklist".	Accomplish After Takeoff Checklist.

# Flight Deck Insights for GA

## Review ... situational awareness



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### Cross-check

- Verify



# Flight Deck Insights for GA Renew

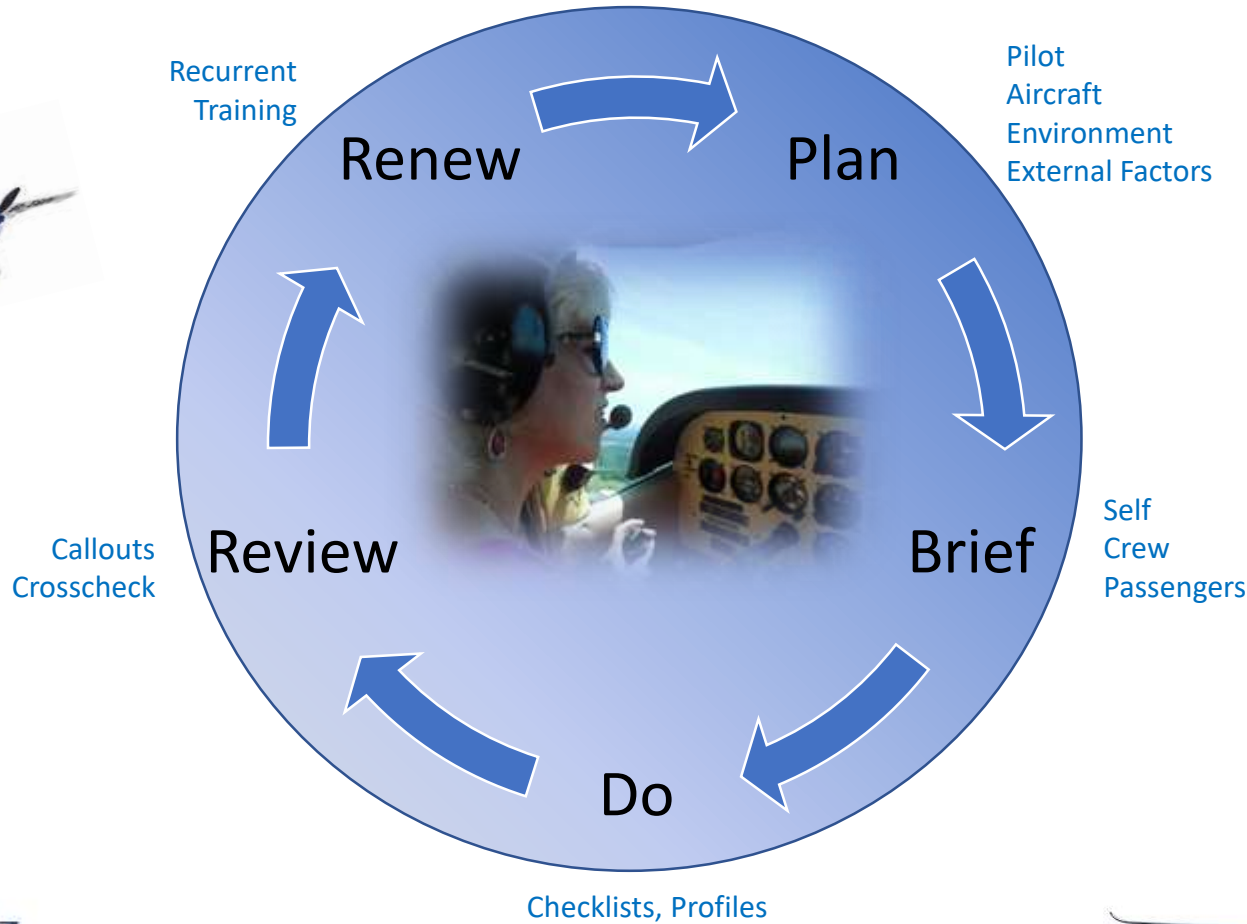
Recurrent training is key!



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# Standard Operating Procedures



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# Want to learn more?



*FAA Safety Briefing*  
[www.faa.gov/news/safety\\_briefing/](http://www.faa.gov/news/safety_briefing/)

See the “Additional Reading” tab  
for specific articles



March 2016 *AOPA Flight Training*  
“12 Tips to Help You Fly Like the Pros”  
William Woodbury

May 2018 *EAA Sport Pilot*  
“Got A Standard?”  
Charlie Precourt

# Want to learn more?



**“The Lost Art of Paying Attention,” FAA Safety Briefing, Jan/Feb 2014, p. 8**

[www.faa.gov/news/safety\\_briefing/2014/media/JanFeb2014.pdf](http://www.faa.gov/news/safety_briefing/2014/media/JanFeb2014.pdf)

**“Surprise,” FAA Safety Briefing, Mar/Apr 2016, p. 18**

[www.faa.gov/news/safety\\_briefing/2016/media/MarApr2016.pdf](http://www.faa.gov/news/safety_briefing/2016/media/MarApr2016.pdf)

**“Battling the Attraction of Distraction,” FAA Safety Briefing, May/Jun 2015, p. 14**

[www.faa.gov/news/safety\\_briefing/2016/media/MayJun2016.pdf](http://www.faa.gov/news/safety_briefing/2016/media/MayJun2016.pdf)

**“What Not to Say,” FAA Safety Briefing, May/Jun 2011, p. 36**

[www.faa.gov/news/safety\\_briefing/2011/media/MayJun2011.pdf](http://www.faa.gov/news/safety_briefing/2011/media/MayJun2011.pdf)

**“Your Safety Reserve,” FAA Safety Briefing, Mar/Apr 2015, p. 30**

[www.faa.gov/news/safety\\_briefing/2015/media/MarApr2015.pdf](http://www.faa.gov/news/safety_briefing/2015/media/MarApr2015.pdf)

**“I’ve Got Weather – Now What Do I Do with It?” FAA Safety Briefing, Mar/Apr 2015, p. 26**

[https://www.faa.gov/news/safety\\_briefing/2015/media/MarApr2015.pdf](https://www.faa.gov/news/safety_briefing/2015/media/MarApr2015.pdf)

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