

Fundamentals of Instructing

Are you an Accident Waiting to Happen?

The Walking Dead



Are you the Walking Dead?





Flying a small GA airplane - You wonder



Is it SAFE?







Just how dangerous is it to fly a small GA airplane?





How dangerous is it to fly a small GA airplane?

Without good Risk Management, about the same as riding a motorcycle



A very cool place to fly to...





A very cool place to fly to...





A very cool place to fly to...





A very cool place to fly to...



Dock
BBQ
Solar Electricity
Satellite Internet



A very cool place to fly to...



On demand hot water

Bathroom with Shower/Toilet

Full kitchen with Fridge, stove



About the landing strip

About 2000 ft/dirt



About the landing strip

1980 MSL



About the landing strip

Trees at the approach end approx. 60 ft.



About the landing strip

Must go around prior to 200 ft. due to rising terrain



About the landing strip

Well maintained runway with tiedown for v4 airplanes



You really wanted to go to the cabin, didn't you - Why?



Requires skill
Challenging
Reward at the end
All plays directly into risk/fun



Almost all Pilots are Risk Takers – WHAT?

Pilots also ski, snowboard, Kayak, Kite Surf, Skydive, Scuba Dive – You name it



Almost all Pilots are Risk Takers – WHY?

It's a new skill to master



Almost all Pilots are Risk Takers – WHY?

It lets you overcome challenges and fears



Almost all Pilots are Risk Takers – WHY?

It lets you use your survival instinct



What can be done to improve the safety?

Let's be honest about things...



The most dangerous part of today was your drive to the airport – Not True!

This is only true when flying on an Air Carrier (Part 121)



Why isn't it true?

Equipment



Why isn't it true?

Pilot Training and Proficiency Checks



Why isn't it true?

Experience



Why isn't it true?

Layers of Protection: Dispatch, Maintenance, Cpt, FO



What doesn't work

Only going over NTSB reports



What doesn't work

Upping your personal minimums by trying



What doesn't work

Asking for the test before the lesson



What doesn't work

Risk assessments that take too long for training flights



FAA answers to Risk Management

Handbooks too big and have too much detail



The Problem with the Hazardous Attitudes

People sometimes don't identify with them



The Problem with the Hazardous Attitudes

It's too simplistic – people don't really see things that way



What can we do?

Accept the label and behave as if it were true about us!



A method that you will use and it won't take forever

Let's have just one way to perform a risk assessment



A method that you will use and it won't take forever

Let's have just one way to manage risk inflight



The goal for every training flight

Perform a risk assessment before EVERY flight



The goal for every training flight

Have that assessment completed in 10 minutes or less



The goal for every training flight

Longer, non training flights can and should take longer



What's the difference between a hazard and a risk?

A hazard is something that could adversely affect the flight



What's the difference between a hazard and a risk?

A risk is the effect it will have on this flight/situation



What's the difference between a hazard and a risk?

Example: Alternator failure Day VFR on Final



What's the difference between a hazard and a risk?

Risk – Very low



What's the difference between a hazard and a risk?

Alternator failure – IFR/night 100nm to destination in a single engine airplane with one alternator



What's the difference between a hazard and a risk?

Risk – Very high – limited to no navigation capability before arrival at destination



Let's Preflight the Flight!

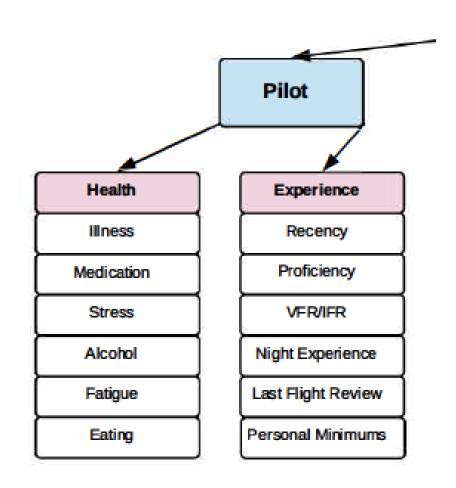
PAVE before a flight – Preflight the flight

Preflight

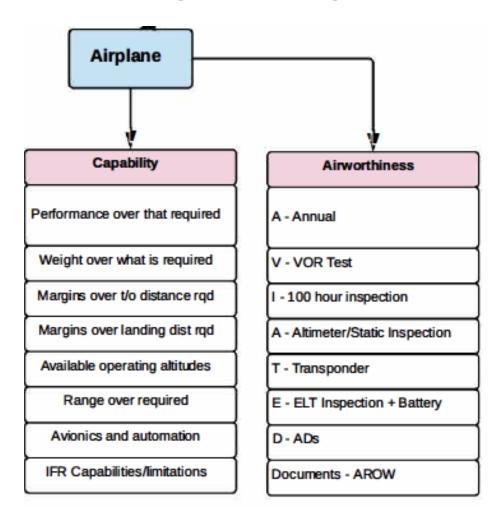
Pave

Pilot

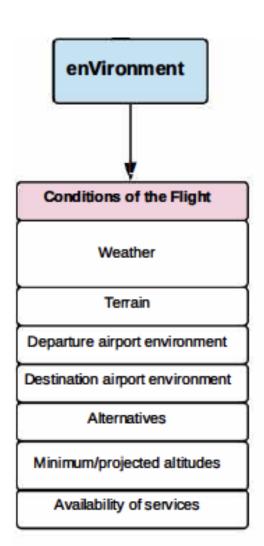




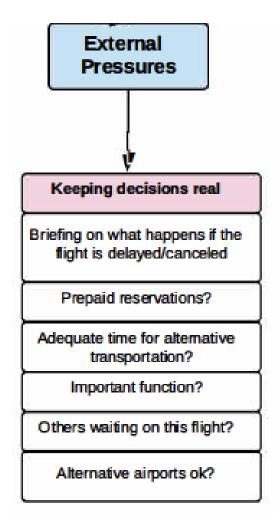














Let's use some tools you will look forward to using!









ForeFlight - Profile View - Performance+ - Clouds and Icing





ForeFlight – 3D View/Route – Performance+ - Airports/Terrain







ForeFlight - Traffic - Pattern/Practice Area

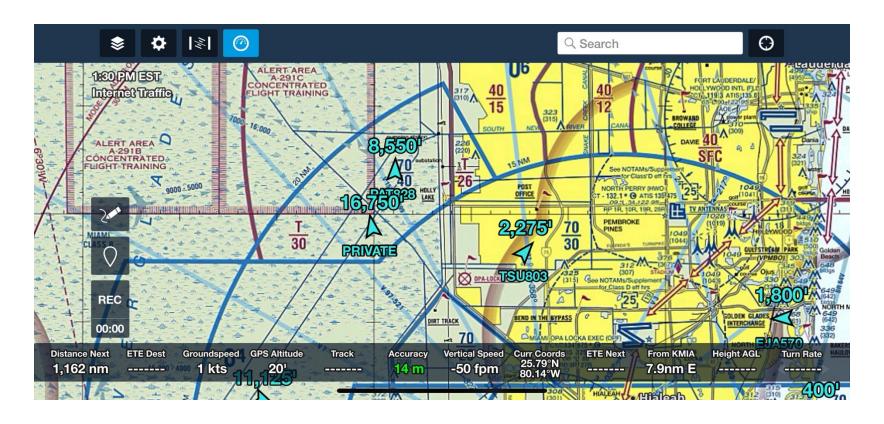








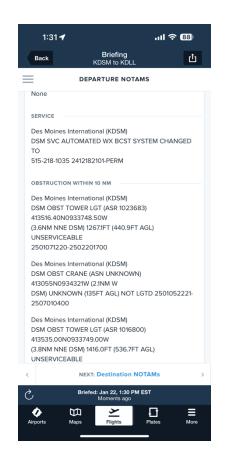
ForeFlight – Traffic – Pattern/Practice Area





ForeFlight - Weather Briefing





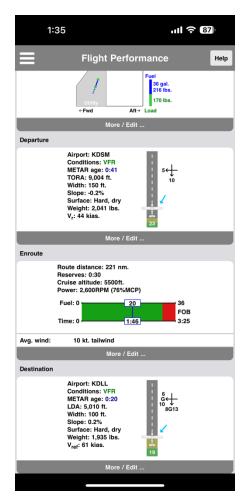


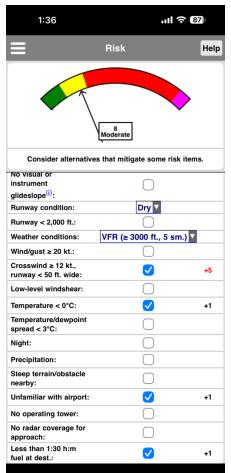
C172 Performance App - iOS

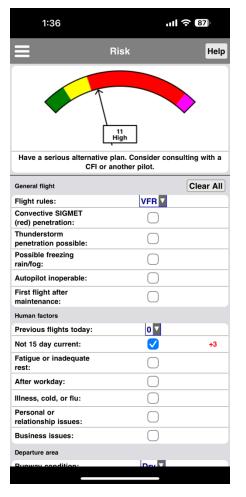




C172 Performance App - iOS









Risk Management Inflight

Keep is simple – 3P



Risk Management Inflight

Perceive – What just happened



Risk Management Inflight

Process – Is it important now? – what can be done?



Risk Management Inflight

Perform – Do the action – checklist/memory item



SRM – Single Pilot Resource Management

5P Checklist



SRM – Single Pilot Resource Management

Pilot – What can you do?



SRM – Single Pilot Resource Management

Plane – What can the airplane do?



SRM – Single Pilot Resource Management

Plan – What needs to be changed?



SRM – Single Pilot Resource Management

Programming – What needs to be done ahead of time/now?



SRM – Single Pilot Resource Management

Passengers – Who can help and to what extent?



By the way...

Join SAFE – safepilots.org and get 1/3 off Foreflight!





By the way...

Join the CFI Study Group on Facebook - Free







Practice Risk Management on Every Flight and...

You Won't be the Walking Dead and...





Practice Risk Management on Every Flight and...

It is SAFE!

