NATIONAL ASSOCIATION OF FLIGHT INSTRUCTORS ENTROPY OF FLIGHT INSTRUCTORS

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Welcome!



LIVE







Scenario-based Simulator Training for the Rest of Us



Presented by William "Billy" Winburn, *LIVE* President, Community Aviation



William "Billy" Winburn

- Native of Savannah, GA and a resident of Alexandria, VA.
- Instrument rated private pilot
- President of Community Aviation
- Active pilot, recently flew from Maine, to Florida and back recording the East Coast IFR Experience
- Avid hunter throughout the Mid-Atlantic and South East areas of the US







Scenario-based Simulator Training for the Rest of Us

How Scenario-based training can be a part of your flying proficiency and training flight plans







Airlines



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Space Exploration



LIVE





...because it works



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Out of reach for most in GA Community



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So - What is...

Scenario-based Simulation Training?

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Scenario-based Simulation Training







COMMUNITY AVIATION

Scenario-based Simulation Training









Skill Building

- Repetition
- Muscle Memory
- Technique
- Driving
- Putting
- Pitching







Skill Building

- Repetition
- Muscle memory
- Procedures
- HoldsApproachesSID's









Real Time Scenarios

- Game on
- Judgement Calls
- Strategy
- Environment
- Terrain
- Distance...









Real Time Scenarios

- Game on
- Judgement Calls
- Strategy
- Weather
- Emergencies
- •Communications...





COMMUNITY AVIATION

Break it down

1.Realistic Simulation
Environment
2.Syllabus-based
Training Materials
a.Lesson Plans
b.Pilot Kits
3.Qualified instructors
4.Validation





EAA Pilot Proficiency Center











Realistic Simulation Environment



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Pilot Kits

Syllabus-based Training Materials







COMMUNITY AVIATION Pilot Kits

Syllabus-based Training Materials





Lesson Plans



Syllabus-based Training Materials

EAA Proficiency365^{**} Lesson Plan Snirit of Aviation Week 2020

Now What! VFR Exercise #1902

MISSION SUMMARY: An engine out gay. Well today it's you. Your instruct situations that require some quick this

THE OBJECTIVE: Instill in the pilo an engine failure on every flight and

INSTRUCTOR NOTES: This exercise flights in a right hand traffic patter instructor will all the engine at diff example: on the downwind, absam plot turns from cressivation to down start of the takeoff roll up to, or thr This will have the pilot-in-training another failure on the final pattern, will be NG aliure. Upon landing the training - "t would like you to have make!"

Prior to starting the scenario the in reasons for an engine failure. These caused by a blockage, wapor lock, bi driven fuel pump, or blocked exhau engine) loss of oil pressure, overhei mention a few...

June 11, 2018 1901 EDT 2301 Zulu KHVN 112301Z 16008 10SM CLR

NOTE: In order to properly simular an engine failure, the instructor mu station). Unfortunately Navigator di many of the elements relating to fue engine failure. Thus it is up to you, it these issues with the P-I-T. You can

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EAA Proficiency365[™] Lesson Plan Spirit of Aviation Week 2020

The Wright Stuff IFR Exercise #1906 v4.5 (20 mins) IFR Bundle - VFR / IFR Bundle

MISSION SUMMARY: KII Devil Hills, KC is where powered light began and the airport there (FFR) note san instrument approach. Todaya F First Flight Airport you'r Byling the RAW (1957) Rwy 21 and you can try you'r bad with one of the more itenersting approaches in the system. If you're got a WAAS enabled (BP's you can follow the step downs, but either way with an LP+V coherwise you can follow the step downs, but either way you'll have to negotiate a 30° offset from the MDA to the runway. It's tricky but it sure feels good when you get It right.

You are encouraged to fly this exercise multiple times and under different circumstances; e.g., by hand, coupled, missed approach, etc. This approach is a lot of fun to fly but you'll need the right stuff to execute it properly.

THE OBJECTIVE: To understand the differences between $LP_L LP+V_L LP$, LDAW and LNAV-4 approaches (be LP and LPF provide angular lateral guidance down to a 700 width at the threshold whereas the LAW and LAW-V provide linear guidance at SAM from the final fix the MAW The Gr to the DP and LANOV to an LDAM and is advocary whereas the LAW and LAW and

Allow the P-I-T to fly the exercise as many times as they like in order to understand the role of the glide slope and the risk of flying it through the MDA prior to the final turn to the airport.

INSTRUCTOR NOTES: This IFR mission starts with the airplane at 3,000', approximately 5 miles from YELUS on course 0799 from OCSIP. The P-I-T has been cleared for the RNAV (GPS) Rwy 21 into KFFA and a frequency change to the First Flight CTAF has already been approved.

As an exercise the P-I-T has the opportunity to learn from their mistakes and the instructor should allow them fly the mission as many times as they like. Encourage the P-I-T to hand fly the approach with "raw data", hand fly using the fight director and / or use the auto pilot on the approach. Missions can terminate as a full stop or missed approach.

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EAA Proficiency365th Lesson Plan

Spirit of Aviation Week 2020

N	ight	Flig	tht i
v	FR R	indle	. 1

MISSION SUMM in IMC. Howeve EAA Proficiency365™ Lesson Plan instruments to show you how b Spirit of Aviation Week 2020 awareness and h Deep Practice IFR Exercise #1908 v4.5 (20 mins +) Remember you' outside, but you IFR Bundle - VFR/IFR Bundle you oriented. So MISSION SUMMARY: Repetition is a solid pathway to building muscle provide lateral g memory and embedding procedures. This exercise gives the pilot an situational awa opportunity to fly multiple approaches into one runway with the same This mission is a eather. Think of this as hitting tennis balls against a backboard; foreget comfortable hand, backhand, volleys, serves. Try them all. THE OBJECTIVE As soon as one approach becomes comfortable, change to the unfamiliar. using basic instr Terminate as a full stop or a missed approach, then back to another. Try Demonstrate an a circle to land; there's not that much of a tailwind and it's a long reference and a runway. Make this exercise a routine. This is Deep Practice. The objective is THE OBJECTIVE: The pilot-in-training (P-I-T) can fly multiple annroach but to approaches into runway 30 at Long Beach / Daugherty (KLGB) in short their situationa order. The weather is set such that several types of approaches are possible. As soon as one approach becomes comfortable, change to an INSTRUCTOR N unfamiliar one. Terminate as a full stop, touch and go, or a missed short for runwa sky is dark with approach back to another approach. take the P-I-T or INSTRUCTOR NOTES: Current ATIS KLCB 3016157 35009KT 2SM OVC009 15/05 A2994 The mission starts with the airplane eleven (11) miles south of the Seal Beach (SLI) VOR on the 175° radial at ALBAS, 4,000 feet, HDG 355°. Encourage the P-I-T to use ForeFlight to aid in the selection of approach / situational awareness using the "procedures" button in the FPL (flight plan). The available choices for Rwy 30 are: ILS or LOC Rwy 30; RNAV (GPS) Z Rwy 30; or VOR Rwy 30. Challenge the pilot-intraining with their approaches.

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Qualified Instructors



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Realistic Simulation Environment



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Syllabus-based Training





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Billy Winburn

HOME AIRPORT

Doug Stewart

HOME AIRPORT

Dave Strassburg

HOME AIRPORT

HOME AIRPORT



COMMUNITY AVIATION

Qualified Instructors



Instructors

















Nate Weinsaft

HOME ARPORT

Tracy Rhodes

HOME ARPORT

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HONE AIRPORT







Greg Jolda

HOME AIRPORT

Juan Ramos

HOME AIRPORT

Jack Vandevente

HOME AIRPORT







Greg earned a Master's Degree in Electrical Engineering from the Air Force Institute of Technology. His thesis was "In-Flight Physiological Data Acquisition System.* Graduate - USAF T-37 Instructor Pilot School Graduate - USAF T-38 Instructor Pilot School Graduate - USAF Academic Instructor School. Currently, he teaches Oracle and Visual Basic courses for the Computer Information Systems program at the University of Maine at Augusta and has previously taught Electrical Engineering at the US Military Academy, West Point, as an associate professor in the Electrical Engineering and Computer Science Department. Greg enjoys living on Togus Pond with his wife, Ann, and flying model radio controlled aircraft as well as fishing.

One-to-One

SUMMARY

We fly the Talon together



SUMMARY:









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Validation

COMMUNITY AVIATION	Admin My Programs and Courses All Programs & Courses Preview as •	© °	Complete and continue ->
SOAW 2020 Proficiency365™ Mission Exercises and Scenarios		SOAW 2020 Proficiency365" 0% countre With Scenarios	Mission Review and Validation You may refer to any documents or information at your disposal to complete this Q&A
	Bart nast chapter	Escape from Bedin Escape from Bedin WYB Scenarios Ingl Moon Bry Long Hot Summer Secandard Sorte	sax 1/4 Where does the pilot go for an alternate if they go missed?
Syllabus Featuring	0%	iii VFR Exercises	KOEC
		Nght Flight Now What!	There is not a planned alternate for this scenario.
IFR Scenarios		Johnson Orek Johnson Orek Three Wre Sunday in the Pattern	
. Pilot in Command	Pilot in Command		
Escape from Berlin	resturing Proficiency365™		
VFR Scenarios	The Proficiency365 ¹¹⁴ program		
. Half Moon Bay	advocates pilot safety through year round proficiency training.		
Long Hot Summer	(Read more		
Shenandosh Sortie			



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Spirit of Aviation Week July 21 - 25, 2020



•20+ Qualified Instructors•13 VFR & IFR Simulation Missions

120+ 90-minute Slots forPilots in TrainingCloudAhoy Debriefing



About the IFR Exercise Bundle

The IFR Exercise Bundle provides a pilot-in-training the opportunity to readily fly a diverse combination of approaches, holding procedures, procedure turns, and course intercepts. The weather has been programmed for each mission to reflect the situation in the Pilot Kit. Choose from three (3) instrument Flight Rule (IFR) missions.

















One-to-One

- Qualified Instructors
- •Fixed Price Sessions
- Booking
- Scheduling
- •Pilot Kits

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- Course Materials
- Session Recordings
- WINGS Credits
- •Other Programs

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LEARN-DO-FLY Hands-on Access to Knowledge

https://www.communityaviation.com



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Save the Date! Join us for next month's MentorLIVE, August 19th at 8:00 p.m. ET



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Regulations: The 800# Gorilla Nobody Wants to Talk About

Presented by Todd Shellnut CFI Academy Standardization Manager ATP Flight Training







Thanks for Watching!



Notice:

The National Association of Flight Instructors or Aeronautical Proficiency Training do not provide technical or legal advice. Content is for general information and discussion only, and is not a full analysis of the matters presented. The information provided may not be applicable in all situations, and participants should always seek specific advice from the Federal Aviation Administration and/or appropriate technical and legal experts (including the most current applicable guidelines) before taking any action with respect to any matters discussed herein.

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