



PILOT RISE
LLC

Instrument Rating Syllabus

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Version 5

Description:

This course prepares a private pilot for obtaining their instrument rating and being a safe and diligent pilot in and out of the clouds.

This course consists of four major parts:

- Flight training
- Ground training
- Online Ground School / Homework (Sporty's Online Ground School)
- Simulator training (this part is optional but is STRONGLY recommended)

Students should take notes with all ground lessons and ground videos to be used to study. Each student is expected to begin training with all Private Pilot knowledge.

Objectives:

1. To prepare a private pilot for flight with only the use of instruments
2. To prepare private pilots for the instrument written test
3. To instill instrument knowledge into students
4. To help private pilots earn their instrument rating

Topics:

Ground Training:

1. Private pilot review
2. Cross country planning
3. Weather
4. Instruments
5. Clearances
6. Instrument Procedures

Flight and Simulator Training:

1. Basic Instrument Flight
2. Instrument maneuvers
3. Instrument procedures
4. Clearances
5. Emergency operations

Estimations:

- Cross Country time building is not accounted for - Add the cost you would need to get 36 cross country hours (OR get this with a safety pilot while simulating instrument time (recommended) If you play it right, this cost will not matter because time will be done with a safety pilot and you can split costs.
- If you choose not to go with a safety pilot for practice, then be sure to account for the instructor's time.

Home Study	Simulator	Flight Hours (\$84)		Sim Hours	Ground Hours (\$60) (includes preflight and post flight)	Total Cost
		Safety Pilot (instrument)	Dual (instrument)	Instruction		
! DO THIS !						
Heavy	YES	27.5 (23.5)	19 (16.5)	12	9.5	\$6,400
	NO	18 (15)	35 (30)	-	18	\$7,600
Moderate	YES	27 (23)	19 (16.5)	16	18	\$7,000
	NO	24 (20)	40 (35)	-	34	\$10,000

Lessons:

This is a list of each lesson which will be taught. One lesson may need multiple sessions to complete, and several lessons may be completed in a single session.

Upon reaching lesson 5, we will aim to make instrument flights in actual conditions for 50% of training.

Lesson	Time	Flight	Simulator	Ground	Homework
0		You will need 50 hours of cross country flight time. You should have at least 5 hours after your private. You can build this time during training, but we recommend you fly several cross countries to become a better pilot before beginning training.		<ul style="list-style-type: none"> ● Get Sporty's Instrument Online Ground School course and complete section 1 and 2 before beginning instrument training. Completing more is better. ● TAKE DETAILED NOTES ● Review your Private Pilot notes and resources ● To get ahead faster, and make the written easier, also getting Sheppard Air instrument rating test prep (only \$45) 	
1	Flight: 2 IMC: 1.7 Ground: .5	<ul style="list-style-type: none"> ● Dual Simulated ● VORs ● Unusual Attitudes ● Instrument Failures 		<ul style="list-style-type: none"> ● Summary of an instrument flight ● Basic instrument flight ● Instrument resource packet 	<ul style="list-style-type: none"> ● Sporty's Section 1 [2 hours] ● Sporty's Section 2 [2.5 hours] ● DETAILED NOTES ● Review your Private Pilot notes and resources
2	Ground: 2		<ul style="list-style-type: none"> ● ILS Approach ● LOC Approach 	<ul style="list-style-type: none"> ● Instrument Approaches ● ILS and LOC ● DME Basics 	<ul style="list-style-type: none"> ● Sporty's 3.1 - 3.9 [1.5 hours]
3	Ground: 2		<ul style="list-style-type: none"> ● Review ● VOR Approach 	<ul style="list-style-type: none"> ● VOR approach ● VOR / DME 	<ul style="list-style-type: none"> ● Sporty's 3.10 - 3.16 [1 hour] (emphasis on

			<ul style="list-style-type: none"> • VOR / DME Approach 	<p>approach</p>	<p>holds and circling)</p>
4	Ground: 2		<ul style="list-style-type: none"> • Review • Missed Approach • Holding 	<ul style="list-style-type: none"> • Holds 	<ul style="list-style-type: none"> • Sporty's 3.17 - 3.18 [0.5 hours]
5	Ground: 2		<ul style="list-style-type: none"> • Review • GPS Approach • DME Arc Approach • Missed Approach • Clearances 	<ul style="list-style-type: none"> • DME Arc • GPS Approaches • GPS System 	<ul style="list-style-type: none"> • Sporty's 4 [1.5 hours] • Begin Sporty's 5 [2.5 hours]
6	Ground: 2 Self IMC: 2.2	<ul style="list-style-type: none"> • Safety Pilot Practice 	<ul style="list-style-type: none"> • Full IFR Flight • Clearances • Approach • Holds • IFR Simulated Flight 	<ul style="list-style-type: none"> • Cross Country Planning • Clearances • Alternates • Arrivals • Departure Procedures 	<ul style="list-style-type: none"> • Sporty's 5 [2.5 hours]
7	Ground: 2 Self IMC: 2.2	<ul style="list-style-type: none"> • Safety Pilot Practice 	<ul style="list-style-type: none"> • ODPs • STARs • Approaches • Holds 	<ul style="list-style-type: none"> • Weather in IFR • ODPs • SIDs • STARs 	<ul style="list-style-type: none"> • STUDY FOR WRITTEN
8	Self IMC: 2.2	<ul style="list-style-type: none"> • Safety Pilot Practice 	<ul style="list-style-type: none"> • Practice as needed 		<ul style="list-style-type: none"> • STUDY FOR WRITTEN
9	Flight: 2.5 IMC: 2.2 Ground: .5 Self IMC: 2.2	<ul style="list-style-type: none"> • Dual Flight • ILS • VOR / DME • Missed and holding • Safety Pilot Practice 	<ul style="list-style-type: none"> • Practice as needed 		<ul style="list-style-type: none"> • Take Written Test

10	Flight: 2.5 IMC: 2.2 Ground: .5 Self IMC: 4	<ul style="list-style-type: none"> • ILS • LOC • VOR / DME • Missed and holding • Safety Pilot Practice 	<ul style="list-style-type: none"> • Practice as needed 		<ul style="list-style-type: none"> • Checkride study
11	Flight: 2.5 IMC: 2.2 Ground: .5 Self IMC: 4.1	<ul style="list-style-type: none"> • IFR Practice as needed • Safety Pilot Practice 	<ul style="list-style-type: none"> • Practice as needed 		<ul style="list-style-type: none"> • Checkride study
12	Flight: 4 IMC: 3.5 Ground: 1.5 Self IMC: 2.2	<ul style="list-style-type: none"> • 250nm Cross Country • Safety Pilot Practice 		<ul style="list-style-type: none"> • Long Cross Country 	<ul style="list-style-type: none"> • Checkride study
13	Self IMC: 2.2	<ul style="list-style-type: none"> • Safety Pilot Practice 	<ul style="list-style-type: none"> • Practice 	<ul style="list-style-type: none"> • Test Prep 	<ul style="list-style-type: none"> • Checkride study
14	Flight: 2.5 IMC: 2.2 Ground: 3 Self IMC: 2.2	<ul style="list-style-type: none"> • Dual Practice • Safety Pilot Practice 	<ul style="list-style-type: none"> • Practice 	<ul style="list-style-type: none"> • Checkride Prep 	<ul style="list-style-type: none"> • Checkride study
15	Flight: 3 IMC: 2.7 Ground: 3	<ul style="list-style-type: none"> • Practice Checkride 		<ul style="list-style-type: none"> • Practice Checkride 	<ul style="list-style-type: none"> • Checkride study
16	Ground: 2		<ul style="list-style-type: none"> • Dual Practice 	<ul style="list-style-type: none"> • Checkride Prep 	<ul style="list-style-type: none"> • Checkride study
17		<ul style="list-style-type: none"> • CHECKRIDE 			