

Initial Pilot Training for PA46-310/PA46-350 Piston Models

The PA46 initial training is designed for new pilots transitioning into the PA46 piston models. The training consists of approximately 28-32 syllabus hours over 4 consecutive days. During the training we will cover the following topics:

- Introduction to Systems and Limitations
- Flight Procedures
- Normal, abnormal, and emergency conditions
- Weather briefing using WeatherSpork and Foreflight
- Pilot Operating Handbook knowledge
- Accident Case Studies

For the training you, trainee, will provide the following:

- Airworthy type-specific (PA46) aircraft
- A PDF copy of the Pilot Information Manual (PIM) or Pilot Operating Handbook (POH)
- Pictures of your cockpit (avionics) so your instructor can familiarize him/herself before the training begins

Syllabus

Syllabus: In conjunction with the syllabus we will leverage the Live Pilot Training electronic training manual developed specifically for the PA46 piston airframe. Your instructor provided online access and requested to read the training manual, along with the POH prior your arrival to your initial training

Description	Hours	Day
Welcome & Introduction	1 hr	Day 1
<p>Aircraft Systems Overview: Aircraft systems are reviewed from a pilot's perspective. The purpose of the overview is to help you understand how each system components work on the ground, in the air, normal and emergency situations.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> → PA46 airplane overview → Annunciators 	3 hrs	Day 1

<ul style="list-style-type: none"> → Airframe → Engine and propeller → Electrical systems → Landing gear system → Fuel system → Environmental system → Bleed air, air conditioning and pressurization → Oxygen system → Ice protection → Pitot-static system → Vacuum system → Doors & exits → Miscellaneous systems 		
<p>Cockpit Procedures Training: this portion of the training will allow you to discover everything in the cockpit, airplane panel, how things function and how it is integrated into various flight phases. We'll learn different flows for phases of the flight and how to integrate flows into your checklist.</p> <ul style="list-style-type: none"> → Avionics will be powered up with external 28V power source → Annunciator lights → Checklist flows and integrated flows into checklists → Normal, abnormal and emergency procedures 	2 hrs	Day 1
Lunch	1 hr	Day 1
<p>Flight #1: Familiarize yourself with the plane, power & configuration settings. This flight will be conducted in VFR conditions.</p> <ul style="list-style-type: none"> → Normal takeoffs and landings → Pattern work → Power settings, configuration and pitch settings for each phase of the flight → Complete power settings table from training manual → Steep turns & slow flight → Drag demo 	1.5 hrs	Day 1
Debrief Day 1	30 min	Day 1
<p>Welcome to Day 2</p> <ul style="list-style-type: none"> → Review content covered from Day 1 → Discuss Day 2 'game plan' 	45 min	Day 2
<p>Flight #2: Continue to build confidence flying your PA46 aircraft in VFR conditions. Scenario based training, that</p>	2 hrs	Day 2

<p>mimics real life scenarios.</p> <ul style="list-style-type: none"> → Slow flight → Power ON/OFF stalls → Steep turns → Unusual attitudes → May also fly simulated engine out (power off) spot landing → Normal and Short Field takeoffs and landings 		
<p>Debrief Flight #2:</p> <ul style="list-style-type: none"> → Depending on your avionics suite we may leverage CloudAhoy CFI tool to debrief on the flight maneuvers. We'll focus on power settings & configuration, airspeed control and flying a stabilized final approach. → Remember a good landing starts on the Downwind 	1 hr	Day 2
<p>Lunch</p>	1 hr	Day 2
<p>Flight #3: Continue to build your confidence flying your aircraft, including equipment and system malfunctions</p> <ul style="list-style-type: none"> → Unusual attitude recovery → Emergency procedures → Rapid decompression → Emergency descent → Engine failures → Go-Around → No-Flap landing 	2 hr	Day 2
<p>Debrief Flight #2:</p> <ul style="list-style-type: none"> → Debrief flight maneuvers, landings, takeoffs → Focus area: power settings/configurations on final approach, flare, touch town 	45 min	Day 2
<p>Welcome Day 3:</p> <ul style="list-style-type: none"> → Review training content from Day 1 & 2 answer any questions → Discuss Day 3 'game plan' 	45 min	Day 3
<p>Flight #4: Continue with basic flight maneuvers both VFR and under the hood</p> <ul style="list-style-type: none"> → Climbs, level flight → Turns and turning climbs/descents → Basic holds tracking → Flying DME arcs → Integrate your avionics in your specific panel (GPS, RNAV, radar altimeter, stormscope, radar pod,...etc.) 	1.5 hr	Day 3

→ Incorporate Aeronautical Decision Making (ADM) and Risk Management (RM) into each phases of the flight		
Break	30 min	Day 3
Flight #5: Precision and Non-precision approaches → Using automation in your aircraft to minimize workload → Will leverage the power settings table from Flight #1 to fly instrument approaches → Integrate the concept for Visual Descent Points (VDP) → Fly precision and non-precision approaches to minimums → Fly simulated abnormal and emergency conditions, including partial panel approaches	2 hrs	Day 3
Lunch	1 hr	Day 3
Flight #6: Continue to familiarize yourself with your autopilot, automation management, task management during critical phases of the flight. → Autopilot & automation management → 2 precision & non-precision approaches (VTF and full approaches with course reversal) → Normal and short field takeoffs and landings	2 hrs	Day 3
Debrief Flight #4, #5 and #6	30 min	Day 3
Welcome Day 4: → Review training content from Day 1 -3, answer any questions → Single pilot tips from your instructor → Discuss day 4 'game plan'	1 hr	Day 4
Pre-LOFT (Line Oriented Flight Training) flight planning: Flight planning session that will make the next flight (LOFT flight) more effective. We'll complete detailed flight planning, including destination, weather briefing, W&B calculations, fuel planning, ...etc.	1 hr	Day 4
Flight #7: LOFT Flight & Lunch Break: this is your opportunity to put it all together. Everything we learned the past 3 days, you'll be able to demonstrate proficiency and knowledge flying your PA46 aircraft. We'll focus on tactical, practical and best practices to make you a safe pilot.	3-4 hrs	Day 4

Break	30 min	Day 4
Flight #8: This is your last flight, we'll work on any specific items you would like to focus on. Additionally, we'll complete your training with one instrument approach and 3 takeoffs/landings.	1 hr	Day 4
Debrief your Flight Training & Complete Paperwork <ul style="list-style-type: none"> → Congratulations! You made it! Welcome to the PA46 community → If you haven't done so, please join MMOPA community. Your first year of membership is FREE by completing the initial training with Live Pilot Training → Game plan for 30-60-90 day check in → Train Like a Pro, Fly Like a Pro 	1 hr	Day 4