CFI Bootcamp

Flight Instructor Training

Teaching Skills

Giving Preflight Briefings With a Syllabus

Lesson Plans for the Checkride Don't Work

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The Problem

How to Use a Syllabus is Not Being Taught

The Problem

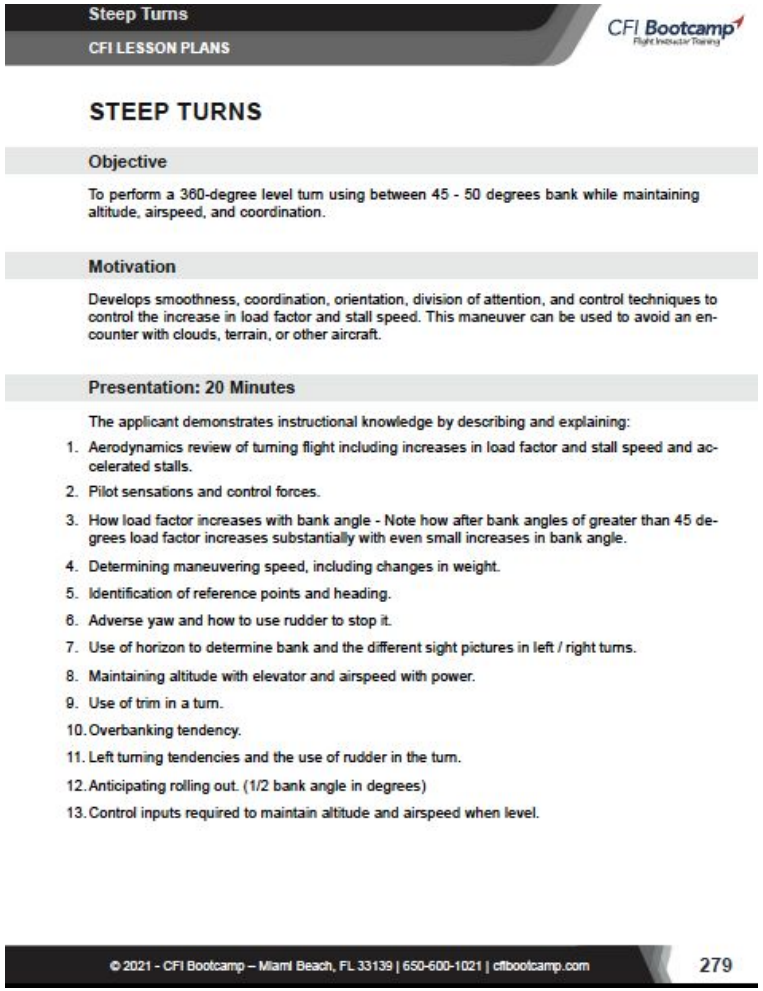
Lesson Plans for a Checkride Don’t Fit Well In a Syllabus

The Checkride Lesson Plan

Complete full lesson
Assumes you are giving the ground as well as flight
Usually takes between 15 - 30 minutes per maneuver

Giving Preflight Briefings with a Syllabus

The Checkride Lesson Plan



STEEP TURNS

Objective

To perform a 360-degree level turn using between 45 - 50 degrees bank while maintaining altitude, airspeed, and coordination.

Motivation

Develops smoothness, coordination, orientation, division of attention, and control techniques to control the increase in load factor and stall speed. This maneuver can be used to avoid an encounter with clouds, terrain, or other aircraft.

Presentation: 20 Minutes

The applicant demonstrates instructional knowledge by describing and explaining:

1. Aerodynamics review of turning flight including increases in load factor and stall speed and accelerated stalls.
2. Pilot sensations and control forces.
3. How load factor increases with bank angle - Note how after bank angles of greater than 45 degrees load factor increases substantially with even small increases in bank angle.
4. Determining maneuvering speed, including changes in weight.
5. Identification of reference points and heading.
6. Adverse yaw and how to use rudder to stop it.
7. Use of horizon to determine bank and the different sight pictures in left / right turns.
8. Maintaining altitude with elevator and airspeed with power.
9. Use of trim in a turn.
10. Overbanking tendency.
11. Left turning tendencies and the use of rudder in the turn.
12. Anticipating rolling out. (1/2 bank angle in degrees)
13. Control inputs required to maintain altitude and airspeed when level.

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A Lesson Plan Does Not:

Show you how to teach something
Become a Syllabus
In current form become a Preflight Briefing

Giving Preflight Briefings with a Syllabus

What you are Looking for - We hear this all the time

Tell me how to teach a lesson on “Steep Turns”
The Lesson plan should show me that - Wrong!

Giving Preflight Briefings with a Syllabus

There is no one way to deliver a lesson

Teaching is understanding the learner(s) and then delivering a lesson based upon that

Giving Preflight Briefings with a Syllabus

Example - “Steep Turns”

If giving ground then the whole lesson
Student taking a course/in one - Preflight briefing - 5 min
Flight review - Interactive - What do you need to know
Evaluation - State the maneuver and completion standards

Lesson Plans are an Outline - Nothing More

You must understand what you are teaching

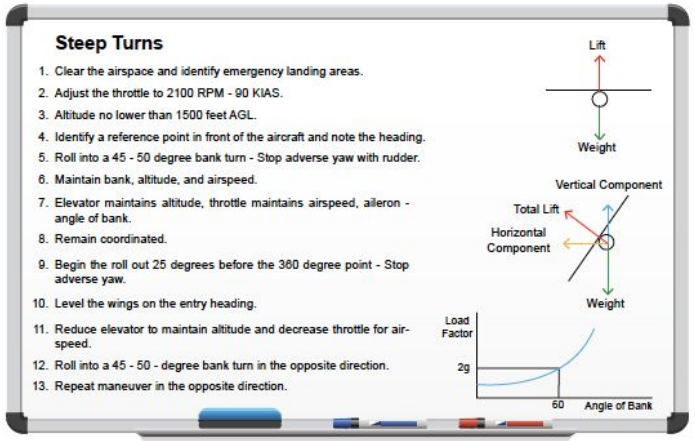
Giving Preflight Briefings with a Syllabus

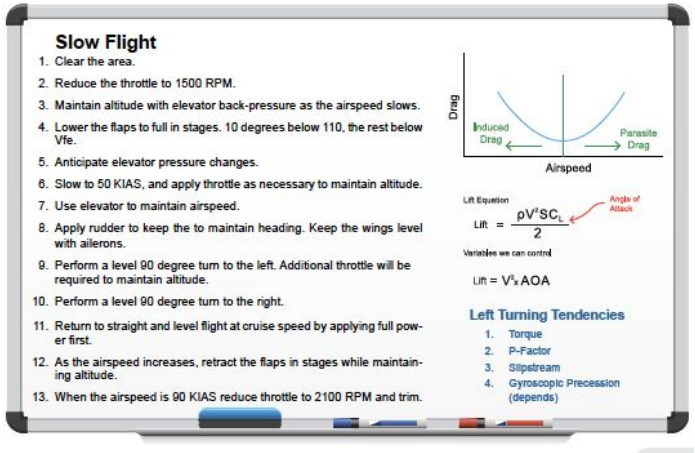
Preflight Briefings are the How and What for this flight

Tells the pilot how to do something
Has a completion standard
Takes around 5 to 10 minutes per maneuver

Giving Preflight Briefings with a Syllabus

Preflight Briefings are the How and What for this flight





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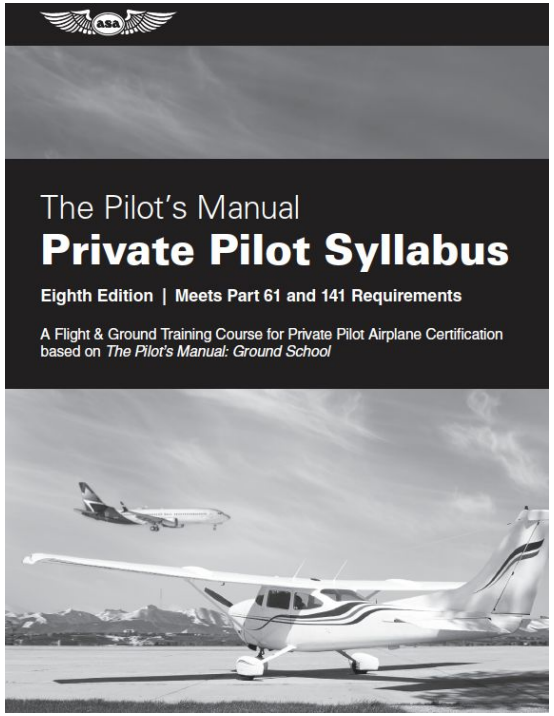
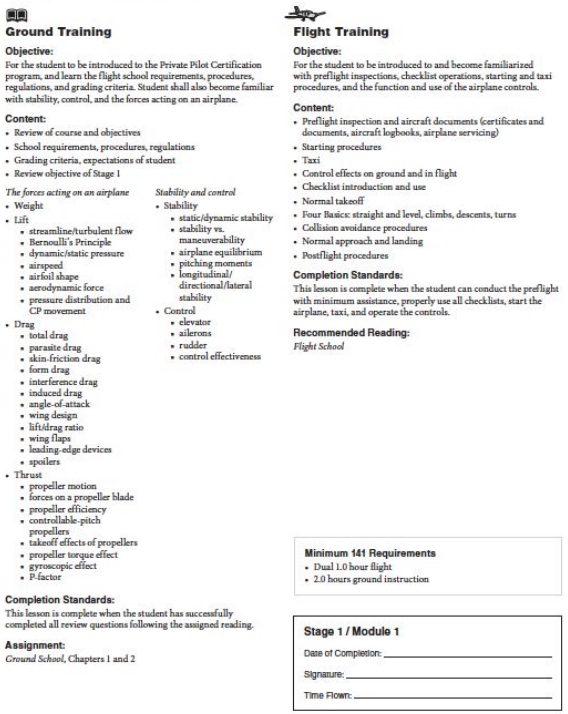
What is a Syllabus?

A Roadmap to a Course of Training for each Class/Lesson

Giving Preflight Briefings with a Syllabus

What is a Syllabus?





Stage 1 / **Module 1**

Ground Training

Objective:
For the student to be introduced to the Private Pilot Certification program, and learn the flight school requirements, procedures, regulations, and grading criteria. Student shall also become familiar with stability, control, and the forces acting on an airplane.

Content:
- Review of course and objectives
- School requirements, procedures, regulations
- Grading criteria, expectations of student
- Review objective of Stage 1

The forces acting on an airplane
- Weight
- Lift
  - streamline/turbulent flow
  - Bernoulli's Principle
  - dynamic/static pressure
  - airspeed
  - airfoil shape
  - aerodynamic force
  - pressure distribution and CP movement
- Drag
  - total drag
  - parasite drag
  - skin-friction drag
  - form drag
  - interference drag
  - induced drag
  - angle-of-attack
  - wing design
  - lift/drag ratio
  - wing flaps
  - leading-edge devices
  - spoilers
- Thrust
  - propeller motion
  - forces on a propeller blade
  - propeller efficiency
  - controllable-pitch propellers
  - takeoff effects of propellers
  - propeller torque effect
  - gyroscopic effect
  - P-factor

Stability and control
- Stability
  - static/dynamic stability
  - stability vs. maneuverability
  - airplane equilibrium
  - pitching moments
  - longitudinal/directional/lateral stability
- Control
  - elevator
  - ailerons
  - rudder
  - control effectiveness

Completion Standards:
This lesson is complete when the student has successfully completed all review questions following the assigned reading.

Assignment:
Ground School, Chapters 1 and 2

Flight Training

Objective:
For the student to be introduced to and become familiarized with preflight inspections, checklist operations, starting and taxi procedures, and the function and use of the airplane controls.

Content:
- Preflight inspection and aircraft documents (certificates and documents, aircraft logbooks, airplane servicing)
- Starting procedures
- Taxi
- Control effects on ground and in flight
- Checklist introduction and use
- Normal takeoff
- Four Basics: straight and level, climbs, descents, turns
- Collision avoidance procedures
- Normal approach and landing
- Postflight procedures

Completion Standards:
This lesson is complete when the student can conduct the preflight with minimum assistance, properly use all checklists, start the airplane, taxi, and operate the controls.

Recommended Reading:
Flight School

Minimum 141 Requirements
- Dual 1.0 hour flight
- 2.0 hours ground instruction

Stage 1 / Module 1

Date of Completion: _____

Signature: _____

Time Flown: _____

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What is a Syllabus?

Tells the teacher what must be covered and in what time
In Aviation it will specify the minimum time
In a class there will only be so much time available

Giving Preflight Briefings with a Syllabus

Most 141 Syllabi aren't usable "As is"

Lesson times understated - ASA 1st lesson takes 6-7 hours
The Syllabus Says 3 hours

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What to do about it?

Assign a course that aligns with the syllabus ground
Ensure the student is always ahead of the flight lesson
Chop up the ground/flight lesson when the lesson it too big

Attention and Processing

Most people can only absorb 20 minutes of new things
People need time to process/try/fail - We learn like this

Assigning a Course is Very Important - Part 61 schools

Students are constrained by instructor lesson allocations
There is time to try other methods to understand/use
Well structured and do a better job of g“Global” info
You provide the tailoring to the learner

Use the Syllabus as a Checklist - Part 61

Look at what needs to be done and work on that list
When a stage is nearing completion see what remains

Use the Syllabus as a Checklist - Part 61

Learners can see their progress and next steps

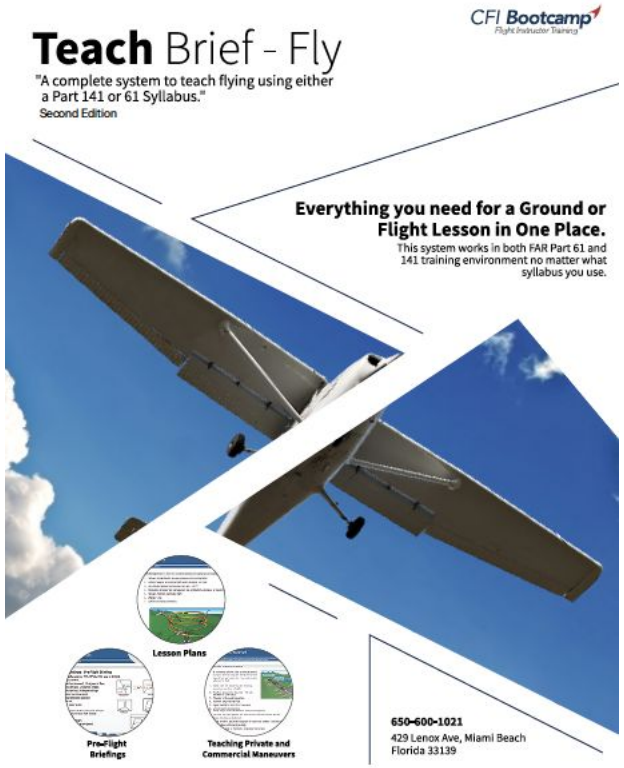
Giving Preflight Briefings with a Syllabus

The FOI?

A Basis on How to be a Teacher
Motivation is key one
Peoples backgrounds are key two
How people like to learn is key three
How you blend these as a teacher is key four

From Us to You!

PreFlight Briefings



[Teach Brief-Fly!]

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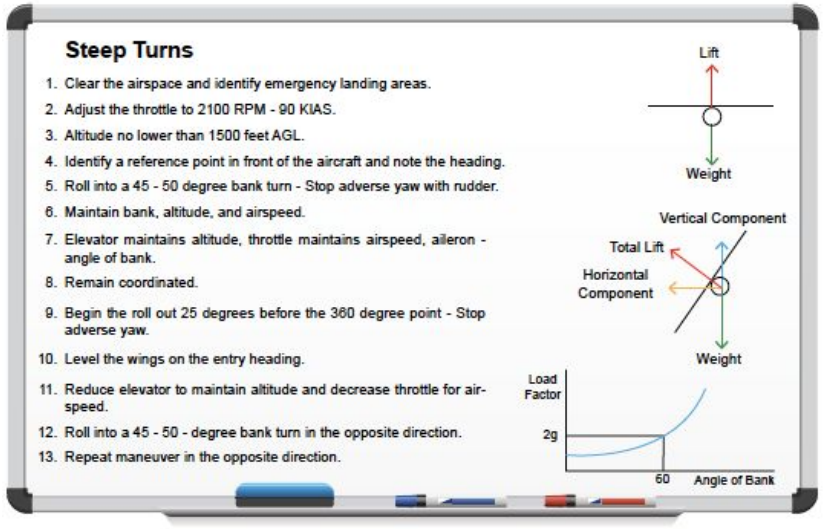
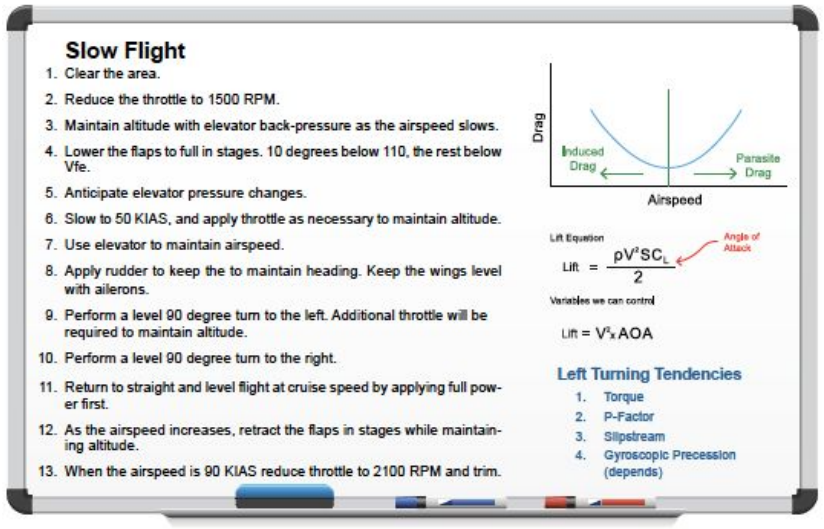
From Us to You!





[Teach Brief-Fly!]

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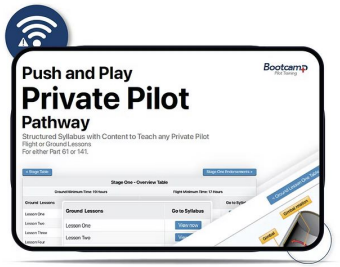
Pathway - A Syllabus with Content Ready to Go



Private Pilot Pathway Syllabus

~~$499.00~~ $374.25

Add to Cart

The Private Pilot Pathway also includes CFI Essentials.

From the very beginning, our Private Pilot Pathway was designed to be a flight instructor's single point of contact to teach every ground and flight lesson for a Private Pilot Certificate.

[Get Pathway at a Discount]

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Our Newest Product

Every Knowledge and Risk Management Element for the oral portion explained – Built for audio – Driving etc.
Also includes video and PDF companion guides
[CFI ACS Smart Study Pro]

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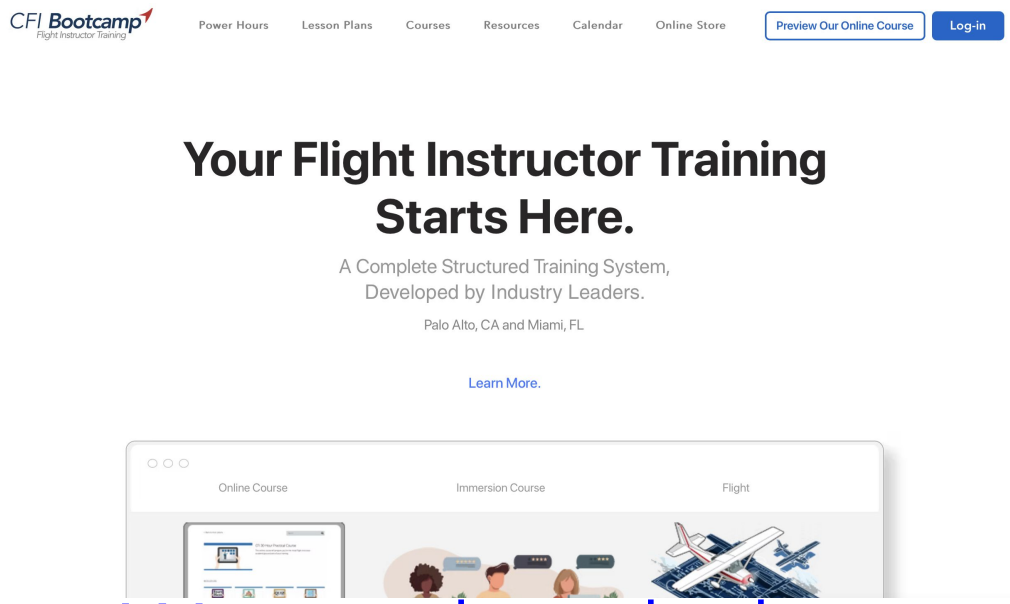
From us to you…

Start your CFI Training and Finish it!



[We get the job done]

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From us to you…

Program

42-hour self-paced online course
42-hour in-person/remote ground school – 7 Days
One week of flight/ground – Dedicated airplanes/CFIs

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Program

Checkride - Prescheduled

On Campus for 2 to 2.5 weeks

Click Here: We get the job done

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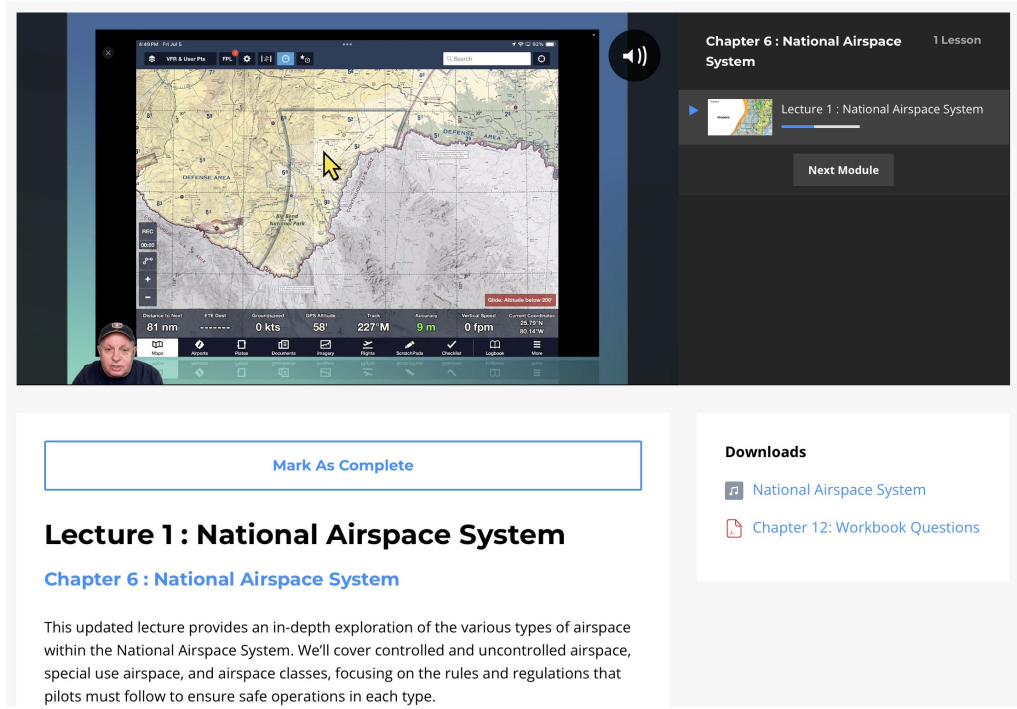
Free Preview of Our Online Course

Click here to get a Preview of the Online Course



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From us to you!

Past Power Hour Information

[Click here to get outlines of previous power hours]

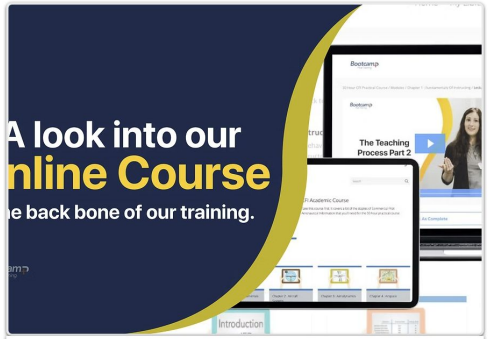
Power Hour Lesson Outlines

Created Around Hour Long Weekly Live Topic Specific Instructional Training.

Powered by Bootcamp +

How to Make Being a Flight Instructor a Career

March 8, 2025 at 12:00:00 PM



A look into the products CFI Bootcamp has to offer

February 22, 2025 at 12:00:00 PM

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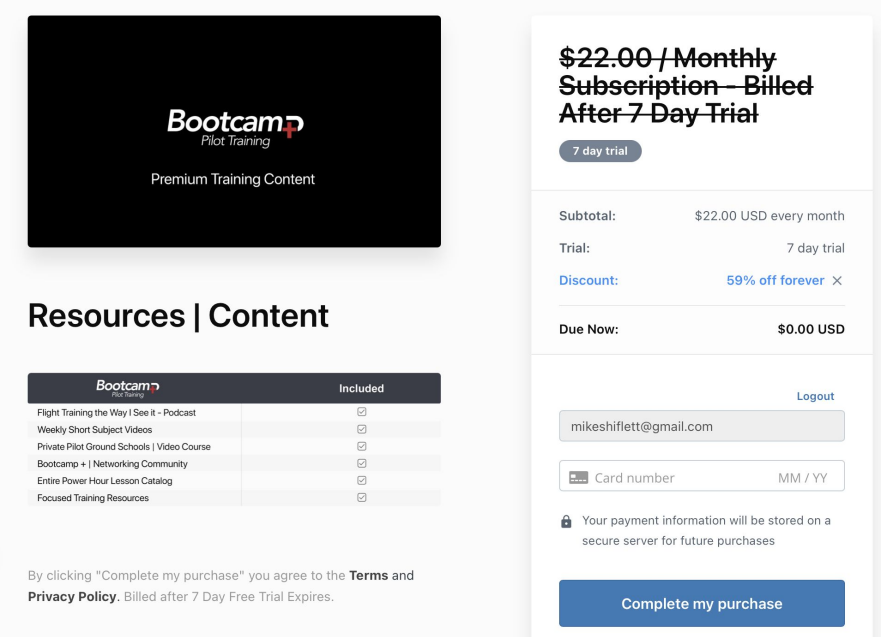
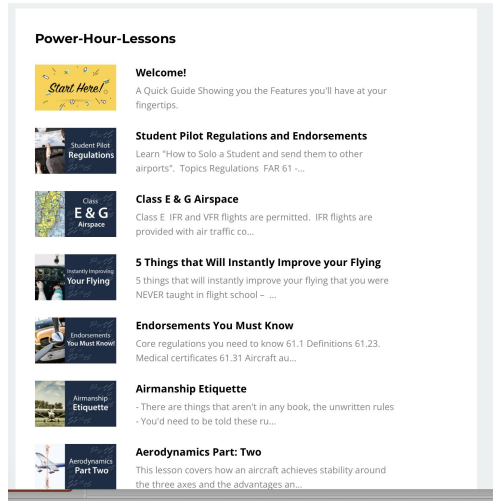
From us to you…

See Every Full-Length Power Hour

[Click here to get a huge discount to our membership site to see every previous power hour – Over 233 of them]



It will work out to be $9/month after the 7-day Free Trial!



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