

Learning Outcomes

Welcome to Flight Instructor Ground School! This course covers the knowledge required to act as an FAA-certified Flight Instructor in airplanes. The lectures in this course draw on materials used for decades to train instructors and include topics such as: fundamentals of instruction, technical subject areas, and professionalism and best practices.

Each of the eleven topics includes a series of video lectures illustrating concepts. **All the course material is available online once you're enrolled on the [FlightInsight](#) course page.** You can supplement the lectures by reading up on the material using the assigned readings listed in the table on the next page. After some of the video lectures, there is a series of practice questions modeled on the actual FAA test. This course covers both the **Fundamentals of Instructing (FOI)**, and **Flight Instructor – Airplane (FIA)** Knowledge Tests. You can take timed practice tests at any time as a dress rehearsal for the real thing!

After successfully completing this course you will be able to:

- Apply your knowledge toward conducting safe, efficient flight instruction;
- Take the Fundamentals of Instructing and Flight Instructor - Airplane Knowledge Tests administered by the Federal Aviation Administration (FAA) for pilot certification. **Completion of the course entitles you to an endorsement to take these exams.**
- Plan and design your own lessons plans, by drawing on our extensive resource of [Pre Completed Lessons Plans](#) for the entire Private and Commercial Pilot curricula.

Resources Used in the Course

The following materials can be used to accompany the online resources for this course. They are also referenced in the lecture module table on the following pages.



[Aviation Instructor's Handbook](#)

This serves as the "textbook" for the course. You can access this FAA publication free online, or purchase your own



[Flight Instructor Airman Certification Standards \(ACS\)](#)

The FAA's standards for flight instructor certification on your checkride. Examiners conduct checkrides based on these standards



[FlightInsight Lesson Plans](#)

We've created lesson plans for all maneuvers and tasks you'll be asked to demonstrate both on your checkride and to students

Your Instructor

Dan George is a Certified Flight Instructor-Instrument (CFII) based in Maryland. He has accumulated over 4,000 flight hours, mostly through instructing students.

He has guided dozens of pilots through the challenging process of attaining their Private or advanced ratings.

Dan serves as a Lecturer at the University of Maryland, teaching Aviation in the Aerospace Engineering Department.

He is an instrument rated Commercial Pilot with Single and Multiengine Land ratings and is an FAA Gold Seal Flight Instructor and Instrument Instructor.

Email Dan at training@flightinsight.com

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Lecture Listing

AC = Advisory Circular 61-65

AIM = Aviation Instructor's Handbook

FAR = Federal Aviation Regulations

AIM = Aeronautical Information Manual

MODULE	READINGS	LECTURE SUBJECT	TIME TO COMPLETE
Module 1	FAR 61	Introduction Welcome to FlightInsight! Becoming a Flight Instructor Course Syllabus Instructor Eligibility Flight Instructor Airman Certification Standards	25 minutes
Module 2	<u>AIH 2</u> <u>AIH 4</u>	FOI: Human Behavior & Communication Human Behavior and Needs Motivation Defense Mechanisms Stress, Anxiety, and Fatigue Adult Learners Basic Elements of Communication Barriers to Effective Communication	30 minutes
Module 3	<u>AIH 3</u>	FOI: Learning Process Learning Theory Perception and Insight Laws of Learning Domains of Learning Acquiring Skill Knowledge Memory, Forgetting, and Retention Transfer of Learning and Errors	25 minutes
Module 4	<u>AIH 5</u> <u>AIH 7</u>	FOI: Teaching Process Preparation of a Lesson Organization of Material Lesson Plans Training Delivery Methods Problem Based Learning and Scenario Based Training Instructional Aids	20 minutes
Module 5	<u>AIH 6</u>	FOI: Assessment and Critique Types of Assessments Assessment Technology Effective Questions Effective Tests Critiques	15 minutes
Module 6	<u>AIH 8</u>	FOI: Instructor Responsibility and Professionalism Instructor Responsibilities Minimizing Student Frustrations Professionalism Evaluation of Student Ability	10 minutes

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MODULE	READINGS	LECTURE SUBJECT	TIME TO COMPLETE
Module 7	<u>AIH 9</u>	FOI: Techniques of Flight Instruction Flight Instruction Techniques Soloing Your Students	10 minutes
Module 8	<u>AIH 1</u> <u>AIH 10</u>	FOI: Risk Management Principles of Risk Management Aeronautical Decision Making	10 minutes
Module 9	FAR 61 AIM <u>AC</u>	Technical Subject Areas Logbook Entries Student Pilot Endorsements Practical Test Recommendations Other Endorsements Privileges and Limitations Legal Interpretations Setting up a Student IACRA Renewing Your CFI Certificate	40 minutes
Module 10		Flight Instructor Airplane – Knowledge Test Prep	
Module 11		CFI Lesson Plans	

Knowledge Test Prep

FlightInsight Ground Schools include comprehensive prep resources to get you ready for the FAA Knowledge Test. Some of the lecture modules will include a practice quiz with questions from the subject you just learned. Not all the lecture modules have questions associated with them. This Flight Instructor course prepares you for both the Fundamentals of Instructing and Flight Instructor – Airplane Knowledge Tests. The videos covering FOI will tie directly into the practice questions you'll see on the test, while the FIA questions draw on knowledge you've gained from your Private and Commercial pilot training. We've provided practice questions for those areas in module 10 of this course.

In some of the lecture modules, you can take a quiz with some practice questions related to the subject you just learned. In each of the modules, you can begin a full, timed and graded mock exam, to simulate what you'll actually see on test day. Take these only when you're ready, and if you're consistently getting 80% or better on these tests, you're ready for the real thing! The two practice tests are administered just like the real FAA tests, as follows:

Fundamentals of Instructing (FOI): 50 Questions – 90 Minutes

Flight Instructor – Airplane (FIA): 100 Questions – 150 Minutes

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