

Course Competency

ATT 2131 Flight Instructor Theory

Course Description

Provides the student ground instruction to obtain the necessary aeronautical knowledge, to meet the FAA written standards for the Certified Flight Instructor Certificate. Preparation for the written exam is included in the course content. Prerequisite: ATF2300; corequisites: ATF2501, ATF2501L. (3 hr. lecture)

Course Competency	Learning Outcomes
<p>Competency 1:The student will demonstrate instructional knowledge required to meet Part 141 “aeronautical knowledge” standards for a Certified Flight Instructor (CFI) by:</p>	<ol style="list-style-type: none"> 1. Information Literacy 2. Computer / Technology Usage 3. Critical thinking
<ol style="list-style-type: none"> a. Breaking down the fundamentals of instructing, including: <ol style="list-style-type: none"> 1. The learning process 2. Elements of effective teaching 3. Student evaluation and testing 4. Course development 5. Lesson planning 6. Classroom training techniques b. Recalling Federal Aviation Regulations that apply to private/commercial pilot privileges, limitations, and flight operations. c. Summarizing the accident reporting requirements of the National Transportation Safety Board. d. Listing applicable subjects of the Aeronautical Information Manual and appropriate FAA advisory circulars. e. Interpreting aeronautical charts for navigation under visual flight rules (VFR), using pilotage, dead reckoning, and navigation systems. f. Demonstrating radio communication procedures. g. Explaining the recognition of critical weather situations from the ground and in flight, wind shear avoidance, and the procurement and use of aeronautical weather reports and forecasts. h. Introducing the safe and efficient 	

<p>operation of aircraft, including collision avoidance, and recognition and avoidance of wake turbulence. i. Teaching the effects of density altitude on takeoff and climb performance. j. Presenting methods used to complete weight and balance computations for training aircraft. k. Explaining the various principles of aerodynamics, powerplants, and aircraft systems. l. Analyzing stall awareness, spin entry, spins, and spin recovery techniques. m. Instilling aeronautical decision-making (ADM) and judgment on pupils. n. Demonstrating preflight action such as obtaining information on runway lengths at airports of intended use, data on takeoff and landing distances, weather reports and forecasts, and fuel requirements, as well as how to plan for alternatives if the originally intended flight cannot be completed or delays are encountered.</p>	
<p>Competency 2: The student will demonstrate the ability to perform the duties of a Certified Flight Instructor by:</p>	<ol style="list-style-type: none"> 1. Computer / Technology Usage 2. Communication 3. Numbers / Data 4. Critical thinking
<ol style="list-style-type: none"> a. Developing reasoned, concise lesson plans for any specified subject (listed above). b. Planning a ground lesson that covers a subject assigned by the instructor. c. Explaining a cross-country flight using real-time weather and conforming to the regulatory requirements for instrument flight rules (IFR). d. Discussing how to determine whether an alternate airport is required, and, if so, whether the selected alternate airport meets the regulatory requirement. e. Instilling the requirements, procedures for landing from an instrument approach procedure. f. Contributing procedures to be implemented in case of system and/or equipment malfunctions during instrument meteorological conditions (IMC). 	

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Updated: SPRING 2024