Course Competency

ATT 2110 Commercial Pilot Theory 3

Course Description

This 35-hour course provides students with the aeronautical knowledge required to act as Commercial Pilot. Students will prepare for the FAA Commercial Written Exam. Private Pilot Certificate with Instrument Rating required. Prerequisite: ATF 2200. Corequisite: ATF 2300 or 2210.

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and understanding required to meet the "aeronautical knowledge" standards set by Part 141 of the Federal Aviation Regulations (FAR) for a commercial pilot certificate by:	1. Critical thinking 2. Communication 3. Numbers / Data 4. Computer / Technology Usage
a. Recalling the Federal Aviation Regulations that apply to commercial pilot privileges, limitations, and flight operations. b. Summarizing accident reporting requirements of the National Transportation Safety Board. c. Explaining basic aerodynamics and the principles of flight. d. Understanding meteorology, to include recognition of critical weather situations, wind shear recognition and avoidance, and the use of aeronautical weather reports and forecasts. e. Discussing the safe and efficient operation of aircraft. f. Performing weight and balance computations. g. Analyzing the use of performance charts. h. Pointing out the significance and the effects of exceeding aircraft performance limitations. i. Explaining the use of aeronautical charts and a magnetic compass for pilotage and dead reckoning. j. Demonstrating the use of air navigation facilities. Understanding aeronautical decision making and judgment. k. Defining the operating principles and functions of various aircraft systems. l. Describing maneuvers, procedures, and emergency operations appropriate to the training aircraft.	

m. Recalling the dimensions and procedures for operating within the National Airspace System.	
Competency 2: The student will analyze and interpret charts, tables, publications, regulations and produce reasoned, critical responses to common aeronautical concerns in high performance/multi-engine aircraft by:	1. Numbers / Data 2. Critical thinking 3. Computer / Technology Usage
a. Completing a standard weight and balance form for a preplanned flight. b. Charting and completing a navigational log for a preplanned long-range flight. c. Filling out a standard flight plan form for a preplanned flight. d. Solving various performance calculations for a preplanned flight. e. Interpreting symbols found in terminal, sectional, and world aeronautical charts.	
Competency 3: The student will demonstrate the ability to act as a commercial pilot by:	1. Communication 2. Computer / Technology Usage 3. Critical thinking 4. Numbers / Data
a. Discussing how to make a competent "go/ no-go" decision and all the factors considered. b. Planning and explaining a cross-country flight using real-time weather to the first fuel stop and computations based on maximum allowable passenger, baggage and/or cargo loads. c. Producing reasoned, decisive procedures to be implemented in case of system and/or equipment malfunctions during commercial operations while carrying passengers and/or cargo. d. Making competent decisions representative of a commercial pilot related to daily	

commercial operations including, but not limited to, adding, removing, and/or shifting weight (such as passengers or baggage).	

Updated: SPRING 2024