

Stage 1 - Private Pilot

Ground Lesson 2

Chapter 2, Airplane Systems

Leading Edge Aviation

Version 2015

Student Name _____

Lesson Objective:

- Gain a basic understanding of the main airplane components and systems.
- Learn about the power plant and related systems.
- Become familiar with flight instrument functions and operating characteristics, including errors and common malfunctions.

Academic Content:

Section A - Airplanes

- Fuselage
- Wings
- Empennage
- Landing Gear
- Engine/Propeller
- Pilot's Operating Handbook (POH)

Date Completed _____

Time _____

Section B - The Powerplant and Related Systems

- Reciprocating Engine
- Induction Systems
- Supercharging and Turbocharging
- Ignition Systems
- Fuel Systems
- Refueling
- Oil Systems
- Cooling Systems
- Exhaust Systems
- Propellers
- Propeller Hazards
- Electrical Systems

Date Completed _____

Time _____

Section C - Flight Instruments

- Pitot Static Instruments
- Airspeed Indicator
- Altimeter
- Vertical Speed Indicator
- Gyroscopic Instruments
- Magnetic Compass

Date Completed _____

Time _____

Completion Standards:

- Demonstrate understanding of airplane components and systems, powerplant, and related systems, and flight instruments during oral quizzing by the instructor.
- Completes with a minimum score of 80%: questions for Chapter 2 Sections A,B, and C. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 3.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor _____

Date _____

Student _____

Date _____