## Stage III Private Pilot Ground Lesson 11

Chapter 8, Airplane Performance

## **Leading Edge Aviation**

Version 2015

Date\_\_\_\_\_

## **Lesson Objective:**

Student\_

- Learn how to use data supplied by the manufacturer to predict airplane performance, including takeoff and landing distances and fuel requirements.
- Learn to compute and control the weight and balance condition of a typical training airplane.
- Become familiar with basic functions of aviation computers.
- Understand the effects of density altitude on takeoff and climb performance.

Academic Content:		
Section A - Predicting F  Aircraft Performar  Chart Presentation Factors Affecting I Takeoff and Landi Climb Performand Cruise Performand Using Performand	ce and Design ns Performance ng Performance e e	
Date Completed		Time
□ Weight Shift Form	ght ance ht and Balance od ce Methods – Computation, Table, and ula ig at High Total Weights	l Graph
Date Completed		Time
Section C - Flight Comp  Mechanical Flight Time, Speed, and Airspeed and Den Wind Problems Conversions Multi-Part Problen	Computers Distance sity Altitude Computations	
Date Completed		Time
instructor.  ☐ Complete with a n		using performance charts and a flight computer and discuss the results with the hapters 8 Sections A, B, and C. Review with the instructor each incorrect response to esson 12.
I certify that the aforementio approved Jeppesen Private		or received in accordance with Leading Edge Aviation Standards and the current 141
Instructor		Date