

Stage II - Private Pilot Ground Lesson 7

Chapter 6, Meteorology for Pilots

Leading Edge Aviation

Version 2015

Student Name _____

Lesson Objective:

- Learn the causes of various weather conditions, frontal systems, and hazardous weather phenomena.
- Understand how to recognize critical weather situations from the ground and during flight, including hazards associated with thunderstorms.
- Become familiar with recognition and avoidance of wind shear and wake turbulence.

Academic Content:

Section A - Basic Weather Theory

- The Atmosphere
- Atmospheric Circulation
- Atmospheric Pressure
- Coriolis Force
- Global Wind Patterns
- Local Wind Patterns

Date Completed _____

Time _____

Section B - Weather Patterns

- Atmospheric Stability
- Temperature Inversions
- Moisture
- Humidity
- Dew point
- Clouds and Fog
- Precipitation
- Air masses
- Fronts

Date Completed _____

Time _____

Section C - Weather Hazards

- Thunderstorms
- Turbulence
- Wake Turbulence
- Wind Shear
- Microburst
- Icing
- Restrictions to Visibility
- Volcanic Ash

Date Completed _____

Time _____

Completion Standards:

- Demonstrate understanding of basic weather theory, weather patterns, and weather hazards during oral quizzing by the instructor.
- Complete with a minimum passing score of 80%: questions for Chapter 6 Sections A, B, and C. Review incorrect responses with the instructor to ensure complete understanding before starting Ground Lesson 8.

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 _____