

Stage III - Private Pilot Ground Lesson 13

Chapter 10, Applying Human Factors Principles

Leading Edge Aviation

Version 2015

Student Name _____

Lesson Objective:

- Gain insight into important aviation physiological factors as they relate to private pilot operations.
- Become familiar with single-pilot resource management (SRM) and understand its importance.
- Understand how to apply the aeronautical decision making process to make effective choices during flight operations.
- Become familiar with tools used to perform self-assessments, communicate effectively, manage tasks and resources, and maintain situational awareness.

Academic Content:

Section A - Aviation Physiology

- Vision in Flight
- Night Vision
- Visual Illusions
- Disorientation
- Respiration
- Hypoxia
- Hyperventilation

Date Completed _____

Time _____

Section B - Aeronautical Decision Making

- Applying the Decision Making Process
- Pilot-in-Command Responsibility
- Hazardous Attitudes
- Risk Management
- Task Management
- Situational Awareness
- CFIT Awareness
- Automation Management
- SRM Training

Date Completed _____

Time _____

Completion Standards:

- Demonstrate understanding of human factors principles, including SRM, during oral quizzing by the instructor.
- Complete with a minimum score of 80% questions for Chapter 10 Sections A, and B. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 14.

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 _____