

Stage I - Instrument Rating

Ground Lesson 3

Note: Students should read Chapter 2, Section B prior to Ground Lesson 3.

Lesson Objective:

- Review the basic principles of attitude instrument flying, including the fundamental procedures related to instrument cross-check, instrument interpretation, and aircraft control.
- Gain a working knowledge of the instrument cockpit check.
- Become familiar with instrument system failures and partial panel flight procedures.

Academic Content:

Section B - Attitude Instrument Flying

Fundamental Skills

- Instrument Cross-Check
- Instrument Interpretation
- Aircraft Control
- Control and Performance Concept
- Primary/Support Concept

Date Completed _____

Time _____

Basic Flight Maneuvers

- Straight-and-Level Flight
- Standard-Rate Turns
- Steep Turns
- Constant Airspeed Climbs
- Constant Rate Climbs
- Constant Airspeed Descents
- Constant Rate Descents
- Leveloff From Climbs and Descents
- Climbing and Descending Turns
- Stalls

Date Completed _____

Time _____

Coping With Instrument Failure

- Identifying an Instrument Failure
- Attitude Indicator Failure
- Heading Indicator Failure
- Partial Panel Flying
- Magnetic Compass Turns
- Timed Turns
- Pitot-Static Instrument Failures

Date Completed _____

Time _____

Unusual Attitude Recovery

- Nose-High Attitude
- Nose-Low Attitude
- Partial Panel Unusual Attitude Recovery

Date Completed _____

Time _____

Introduction to the ATD (Option)

- Orientation and Flight Familiarization
- Overview of Physical and Virtual Controls
- Aircraft Systems Related to IFR Operations
- Instrument Cockpit Check
- Full Panel Instrument Maneuvers
- Partial Panel Instrument Considerations

Date Completed _____

Time _____

Completion Standards:

- Demonstrate understanding of basic attitude instrument flight during oral quizzing by the instructor at completion of lesson.
- Exhibit knowledge of partial panel instrument flight procedures.
- Student completes Chapter 2 questions for section B with a minimum passing score of 80%, and the instructor reviews incorrect responses to ensure complete understanding before the student progresses to Ground Lesson 4.

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 _____