

Stage III - Private Pilot

Ground Lesson 12

Chapter 9, Navigation

Leading Edge Aviation

Version 2015

Student Name _____

Lesson Objective:

- Learn the basic concepts for VFR flight planning, navigation using pilotage, dead reckoning, and aircraft navigation systems.
- Become familiar with the guidelines and recommended procedures related to flight planning, use of an FAA Flight Plan, VFR cruising altitudes, and lost procedures.
- Gain a basic understanding of VFR navigation using pilotage, dead reckoning, and navigation systems.

Academic Content:

Section A - Pilotage and Dead Reckoning

- ☐ Pilotage
- ☐ Dead Reckoning
- ☐ Flight Planning
- ☐ VFR Cruising Altitudes
- ☐ Flight Plan
- ☐ Lost Procedures

Date Completed _____

Time _____

Section B - VOR Navigation

- ☐ Ground and Airborne Equipment
- ☐ VOR Orientation and Navigation
- ☐ VOR Checkpoints and Test Signals
- ☐ VOR Precautions
- ☐ Horizontal Situation Indicator
- ☐ Distance Measuring Equipment (DME)

Date Completed _____

Time _____

Section C - ADF Navigation

- ☐ ADF Equipment
- ☐ Orientation
- ☐ Homing
- ☐ ADF Intercepts and Tracking
- ☐ Movable-Card Indicator
- ☐ Radio Magnetic Indicator
- ☐ ADF Limitations

Date Completed _____

Time _____

Section D - Advanced Navigation

- ☐ VOR-DME-Based Area Navigation
- ☐ Inertial Navigation Systems
- ☐ Global Positioning System (GPS)

Completion Standards:

- ☐ Create a flight plan as assigned by the instructor and review the flight plan with the instructor.
- ☐ Demonstrate understanding of pilotage and dead reckoning, VOR navigation, ADF navigation, and GPS navigation during oral quizzing by the instructor at completion of lesson.
- ☐ Compete with a minimum score of 80% questions for Chapter 9 Sections A, B, C, and D. Review with the Instructor incorrect responses to ensure complete understanding prior to progressing to Ground Lesson 13.

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 _____