

PRIVATE PILOT GROUND TRAINING COURSE SYLLABUS

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PRIVATE PILOT - AIRPLANE TRAINING COURSE SYLLABUS

COURSE OBJECTIVES

The student will obtain the knowledge skill and experience necessary to pass the Private Pilot Airplane FAA written test.

COURSE COMPLETION STANDARDS

The student must demonstrate through tests and school records that the aeronautical knowledge requirements necessary to obtain an endorsement for the Private Pilot Airplane FAA written test.

TRAINING COURSE SYLLABUS PRIVATE PILOT - GROUND

COURSE INTRODUCTION

ATD Flight Systems Training Course Syllabus for the Private Pilot – Ground is the syllabus portion of the ATD Flight Systems 14 CFR Part 141* Approved Private Pilot Ground Training Course. This syllabus provides a logical, structured sequence that maximizes learning and meets 14 CFR Part 141 training time requirements. Training times must be increased slightly to meet 14 CFR Part 61* requirements for students training under those rules. This Training Course Syllabus contains ground lessons appropriate to the Private Pilot Rating.

COURSE CONCEPT

The Private Pilot Ground course utilizes the building-block theory of learning, which recognizes that each item taught must be presented on the basis of previously learned knowledge and skills.

For optimum effectiveness, the viewing of the associated video segments should be completed prior to the respective ground lessons.

COURSE ELEMENTS

The course includes the latest FAA pilot certification requirements and a maximum of student-oriented instruction. The syllabus and support materials not only provide necessary information, but also guide the student through the course in a logical manner.

STUDENT VIDEO PREPARATION

The ATD Flight Systems Private Pilot Ground Training Course Syllabus is based on Sporty's Complete Flight Training course for the Private Pilot on DVD. It is important that the student view all seven DVDs in the course. For each ground lesson, there is required review of specific video sections, and this should be accomplished as part of a self-study program before each ground lesson. Additional topics may also be assigned by the instructor. To maximize the learning benefit of the DVDs, the student should also review the video sections after completion of the lesson. This is particularly true of any subject areas where the student encountered difficulty.

STUDENT INFORMATION

COURSE ENROLLMENT

To be enrolled in this course, you must be at least 15 years of age

LESSON TIMES

Lesson times are specified as a guide to meeting the 14 CFR Part 141 training requirements for the Private Pilot Ground Course. Under the building block concept, however, the student must achieve a specific level of proficiency before starting the next lesson. Lessons may be combined or repeated as needed based on the progress made by the student. The Course Time Allocation Table is provided for planning purposes. It is imperative that the instructor and student periodically review the student's overall progress and determine that the training requirements are consistently being met.

STUDENT STAGE TESTS

Stage tests measure the student's accomplishments during each stage of training. This procedure provides close supervision of training. An examination of the building-block theory of learning will show that it is extremely important for progress and proficiency to be satisfactory before the student enters a new stage of training. Therefore, the next stage should not begin until the student successfully completes the current stage test. Failure to follow this progression may defeat the purpose of the stage check and lead to overall course breakdown.

GRADING

Evaluation is an essential part of the teaching process. The student must be apprised of his or her progress. All instructional lessons must be graded in accordance with the following criteria.

Each ground task will be evaluated at the completion of each instructional lesson.

1 = EXCELLENT	The student demonstrates knowledge or skills with no procedural or mechanical errors and the flight instructor does not provide any assistance
2 = ABOVE AVERAGE	The student demonstrates knowledge or skills that exceed standards. Occasional procedural or mechanical errors are quickly recognized and corrected.
3 = AVERAGE	The student consistently demonstrates knowledge and skills that meet standards with timely recognition of procedural or mechanical errors.
4 = BELOW AVERAGE	The student demonstrates knowledge and skills with difficulty, is slow in recognizing and correcting procedural or mechanical errors.
5 = BELOW ACCEPTABLE STANDARDS	The student does not demonstrate adequate knowledge or skills, is unable to recognize and correct procedural or mechanical errors.
I = INCOMPLETE	The student has not completed the pilot operation listed

Each ground lesson will be assigned an overall grade based on the following criteria.

- | | |
|--------------------|---|
| S = SATISFACTORY | The content of the lesson has been completed to the standards outlined in the individual lesson Completion Standards. |
| U = UNSATISFACTORY | Indicates that all or part of the lesson content was not completed to the standards outlined in the individual lesson Completion Standards. One or more pilot operations graded as a "5" will require an overall grade of unsatisfactory. |
| I = INCOMPLETE | Indicates the content of the lesson was not completed, but the pilot operations covered were satisfactory. Pilot operations not completed must be indicated with an "I". |

Course Time Allocation Table

STAGE NO.	LESSON	TRAINING TIMES			
		FLT	INSTRUMENT TIME (ACTUAL OR SIMULATED)	FTD	DISCUSSION
I	1				1.5
I	2				2.0
I	3				1.5
I	4				2.0
I	5				2.0
I	6				2.0
I	7				1.5
I	8				1.5
I	9				2.0
I	10				2.0
I	11				1.5
STG I TEST					1.0
STG I TOTALS					20.5
II	12				1.5
II	13				1.5
II	14				2.5
II	15				1.5
II	16				2.0
II	17				2.0
STG II TEST					1.0
STG II TOTALS					12.0
END OF COURSE TEST					3.0
COURSE TOTALS					35.5
FAA 141 REQUIREMENTS					35.0 Hours

STAGE I

STAGE OBJECTIVE:

During this stage, the student becomes familiar with the training airplane, aerodynamics, airports, weather, and Airspace.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will have passed a written test on the objectives in Stage I with a minimum score of 80%

**STAGE I
LESSON 1
DUAL - GROUND
TRAINING
AIRCRAFT**

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to the training aircraft and the associated preflight procedures. The student will also be introduced to the basic flight and engine controls.

CONTENT:

Lesson Introduction

- _____ Dispatch Procedures
- _____ Use of Checklists
- _____ Certificates and Documents
- _____ Aircraft Preflight
- _____ Aeronautical Decision Making

Lesson Introduction

- _____ Recovery Procedures
- _____ Engine Controls
- _____ Flight Controls
- _____ Emergency Equipment & Survival Gear
- _____ Aircraft Servicing
- _____ Fuel Grades

Lesson Grade/Date	_____	_____
Lesson time	_____	
CFI/Student Initials	_____	_____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a basic knowledge of the training aircraft preflight. The student will be aware of the decision making process and its critical relevance to flight safety. The student will also be able to complete the dispatch procedures to obtain a training aircraft for a flight lesson.

REQUIRED STUDY:

- FAA-H-8083-3-AFH - Airplane Flying Handbook
- FAA-H-8083-25-PHAK - Pilots Handbook of Aeronautical Knowledge
- Private Pilot Practical Test Standards (Refer to Section 1 of the PTS Study Guide)
- Sporty's *Complete* Flight Training Course for the Private Pilot - DVD Vol 1: Segments 1-13

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**STAGE I
LESSON 2
DUAL - GROUND
AIRPORTS**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to wind direction indicators, airport operations, runway incursions, and traffic avoidance.

CONTENT:

Lesson Introduction

Lesson Introduction

- _____ Wind Direction Indicators
- _____ Airport, Runway and Taxiway Signs
- _____ Airport, Runway and Taxiway Markings
- _____ Collision Avoidance
- _____ Airport, Runway and Taxiway Lighting
- _____ Radio Calls and Checks
- _____ CTAF

- _____ Obtaining Airport Advisories
- _____ Scanning for Traffic
- _____ Traffic Pattern Operations
- _____ Practice Area Operations
- _____ Runway Incursions
- _____ Use of Aircraft Lighting

Lesson Grade/Date _____
 Lesson time _____
 CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of wind indicators, airport operations, and traffic avoidance.

REQUIRED STUDY:

- AC 91-73 - Part 91 Pilot and Flightcrew Procedures during Taxi Operations and Part 135 Single-Pilot Ops.
- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR - 14 CFR Aviation Regulations
- AIM - Aeronautical Information Manual
- Vol 1: Segments .3-20
- Vol 3: Segment 15
- Vol 7: Segment 5

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**STAGE I
LESSON 3
DUAL - GROUND
AERODYNAMICS**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the four forces of flight, forces occurring on an aircraft not in straight and level flight, and the effects of flaps.

CONTENT:

Lesson Introduction

- _____ 4 Forces of Flight
- _____ Airframe Construction
- _____ Three Axes of Flight
- _____ Angle of Attack
- _____ Effects of Flaps
- _____ Critical Angle of Attack/Stalls
- _____ Spin Awareness
- _____ Static Stability

Lesson Introduction

- _____ Dynamic Stability
- _____ Dihedral Effect
- _____ Ground Effect
- _____ Wing Tip Vortices
- _____ Wake Turbulence & Avoidance
- _____ Load Factor & Gusts
- _____ Spin Entry, Spins, and Spin Recovery

Lesson Grade/Date _____
 Lesson time _____
 CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of the four forces of flight, stability, the basic components of aircraft construction, forces acting on aircraft when not in straight and level flight, the effect of flaps, load factors, ground effect, wing tip vortices, and wake turbulence & avoidance procedures.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Vol 1: Segments 21-27
- Vol 2: Segments 5-6
- Vol 3: Segment 18

Notes:

**STAGE I
LESSON 4
DUAL - GROUND
AIRCRAFT
PERFORMANCE**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the takeoff data card, factors that affect performance, airplane weight and balance, basic performance charts, and wind calculations.

CONTENT:

Lesson Introduction

Lesson Introduction

- _____ Factors Affecting Performance
- _____ Takeoff Data Card
- _____ Airplane Weight and Balance

- _____ Basic Performance Charts
- _____ Headwind / Crosswind Calculations

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the takeoff data card, factors that affect performance, how to calculate and interpret an airplane weight and balance, how to use basic performance charts, and how to do headwind / crosswind calculations.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- AFM/POH - Airplane Flight Manual / Pilot Operating Handbook
- Vol 3: Segments 14-18
- Vol 6: Segment 5
- Vol 7: Segment 6

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**STAGE I
LESSON 5
DUAL – GROUND
WEATHER**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the atmosphere and factors influencing aviation weather.

CONTENT:

Lesson Introduction

- _____ The Atmosphere
- _____ Pressure
- _____ Wind
- _____ Moisture
- _____ Humidity
- _____ Stability

Lesson Introduction

- _____ Clouds
- _____ Air Masses
- _____ Fronts
- _____ Frontal Weather
- _____ Thunderstorms
- _____ Other Hazardous Weather Conditions
- _____ Windshear Avoidance

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of basic atmospheric processes.

REQUIRED STUDY:

- AC 00-6-AvWx - Aviation Weather
- AC 00-45-AvWxSvc - Aviation Weather Services
- FAA-H-8083-25-PHAK
- Vol 3: Segments 7-8
- Vol 5: Segment 11
- Vol 6: Segment 10

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STAGE I
LESSON 6
DUAL - GROUND
WEATHER REPORTS
& FORECASTS

LESSON OBJECTIVE:

During this lesson, the student will be introduced to aviation weather charts and reports, and how to obtain a weather briefing.

CONTENT:

Lesson Introduction

- ___ Surface Analysis Chart
- ___ Area Forecast
- ___ Weather Depiction Charts
- ___ Low-Level Prognostic Charts
- ___ TAFs
- ___ METARs
- ___ Winds and Temperatures Aloft
- ___ Pilot Reports

Lesson Introduction

- ___ Weather Briefings (FSS/DUAT)
- ___ AWOS/ASOS/AWSS Reports
- ___ Radar Charts
- ___ AIRMETs
- ___ SIGMETs/ Convective SIGMETs
- ___ NOTAMS
- ___ Wind Shear
- ___ Go/No Go Decision

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of aviation weather charts and reports, and the proper way to obtain a weather briefing.

REQUIRED STUDY:

- AC 00-6-AvWx
- AC 00-45-AvWxSvc
- AIM
- Vol 3: Segments 9-12
- Vol 5: Segment 3; 13
- Vol 6: Segment 12

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**STAGE I
LESSON 7
DUAL - GROUND
EMERGENCIES**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to emergency procedures.

CONTENT:

Lesson Introduction

_____ Emergency Procedures (AFM/POH)

Lesson Grade/Date	_____	_____
Lesson time	_____	_____
CFI/Student Initials	_____	_____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of the emergency procedures listed in the appropriate AFM/POH.

REQUIRED STUDY:

FAA-H-8083-3-AFH
AFM/POH
FAR
AIM
Vol 3: Segments 5-6

<p>Notes:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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**STAGE I
LESSON 8
DUAL - GROUND
FAR/ AIM
NTSB 830 /PTS
LOGBOOKS**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to proper decision-making, FARs, NTSB 830, the use of the AIM, pilot and aircraft logbooks, and "other publications.

CONTENT:

Lesson Introduction

- _____ 14 CFR Part 1
- _____ 14 CFR Part 61 Pvt/Student Limitations
- _____ 14 CFR Part 67
- _____ 14 CFR Part 91
- _____ 14 CFR Part 141
- _____ NTSB 830

Lesson Introduction

- _____ AIM
- _____ Pilot Logbooks /Aircraft Logbooks
- _____ Practical Test Standards
- _____ FAA Advisory Circulars
- _____ Aeronautical Decision Making and Judgment

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of proper decision making, FARs applicable to student and private pilots in a 61 or 141 program, NTSB 830, the use of the AIM, pilot and aircraft logbooks, and other publications.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR
- AIM
- Private Pilot Practical Test Standards Vol 1: Segments 1-2
- Vol 3: Segments 20-21
- Vol 5: Segment 3
- Vol 6: Segment 9

<p>Notes:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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**STAGE I
LESSON 9
DUAL - GROUND
AIRCRAFT SYSTEMS**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to aircraft systems, maintenance requirements and dealing with inoperative equipment.

CONTENT:

Lesson Introduction

- _____ Fuel System
- _____ Electrical System
- _____ Environmental System
- _____ Primary Flight Controls & Trim
- _____ Leading Edge Devices & Spoilers
- _____ Wing Flaps
- _____ Powerplant
- _____ Oil System
- _____ Ignition System
- _____ Propeller
- _____ Hydraulic System

Lesson Introduction

- _____ Landing Gear
- _____ Aircraft Equipment List
- _____ VFR Required Equipment
- _____ Inoperative Equipment
- _____ Vacuum System
- _____ Pitot-Static System
- _____ Avionics
- _____ Deicing and Anti Icing Systems
- _____ Service Bulletins/Airworthiness Directives
- _____ Magnetic Compass
- _____ Maintenance Requirements

Lesson Grade/Date _____
 Lesson time _____
 CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of aircraft systems, maintenance requirements and dealing with inoperative equipment.

REQUIRED STUDY:

- AFM/POH
- Vol 1: Segments 8-10
- Vol 2: Segments 3-4
- Vol 3: Segment 22
- Vol 6: Segment 3

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**STAGE I
LESSON 10
DUAL - GROUND
AIRSPACE
CHARTS & PUBLICATIONS**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to controlled and uncontrolled airspace, the classes of airspace, special use airspace, cloud clearances, VFR sectional charts, and Airport/Facility Directory.

CONTENT:

Lesson Introduction

- _____ Uncontrolled Airspace
- _____ Controlled Airspace
- _____ Class A
- _____ Class B
- _____ Class C
- _____ Class D
- _____ Class E

Lesson Introduction

- _____ Class G
- _____ Special Use Airspace
- _____ Cloud Clearance & Visibility
- _____ VFR Sectional Chart
- _____ Airport/Facility Directory
- _____ Planning for Alternatives

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of controlled and uncontrolled airspace, the classes of airspace, special use airspace, cloud clearances, VFR Sectional charts, and Airport/Facility Directory.

REQUIRED STUDY:

FAR
AIM
Vol 5: Segment 3; 17

<p>Notes:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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**STAGE I
LESSON 11
DUAL-GROUND
AEROMEDICAL**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to aero medical

factors. **CONTENT:**

Lesson Introduction

- _____ 14 CFR Part 67
- _____ The Inner Ear
- _____ Middle Ear and Sinus Problems
- _____ Spatial Disorientation
- _____ The Eye
- _____ Visual Illusions /Landing Illusions

Lesson Introduction

- _____ Hypoxia
- _____ Carbon Monoxide Poisoning
- _____ Hyperventilation
- _____ Alcohol and Drugs
- _____ Stress and Fatigue
- _____ Dehydration

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of aero medical factors and how they relate to flying activities.

REQUIRED STUDY:

FAA-H-8083-25-PHAK
 FAR
 AIM
 Vol 3: Segments 22-23

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STAGE I

STAGE I

TEST

LESSON OBJECTIVE:

This stage test will determine that the student has accomplished the objectives of Stage I.

CONTENT:

TEST

- | | |
|----------------------------|------------------------|
| _____ Airports | _____ FAR |
| _____ Aerodynamics | _____ Aircraft Systems |
| _____ Aircraft Performance | _____ Airspace |
| _____ Weather | _____ Aeromedical |
| _____ Emergencies | |

TEST Grade/Date _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have passed a written test on the objectives in Stage I with a minimum score of 80%

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Pilot Practical Test Standards

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STAGE II

STAGE OBJECTIVE:

This stage introduces the student will learn about navigation, lost procedures, and planning for alternatives if the planned flight cannot be completed.

STAGE COMPLETION STANDARDS:

At the completion of this stage the student will pass a written test on the subject areas covered in this Stage with a minimum score of 80%.

**STAGE II
LESSON 12
DUAL - GROUND
PRINCIPLES OF NAVIGATION**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to principles of navigation.

CONTENT:

Lesson Introduction

- _____ Effect of Wind in (1) Hour
- _____ Drift and Drift Correction
- _____ Various Types of Aircraft Speeds
- _____ Latitude and Longitude

Lesson Introduction

- _____ Earth's Magnetism
- _____ Variation - Isogonic and Agonic Lines
- _____ Magnetic Compass
- _____ Magnetic Compass Errors

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of the principles of navigation.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Vol 6: Segment 3

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**STAGE II
LESSON 13
DUAL - GROUND
PUBLICATIONS &
EQUIPMENT**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to various aeronautical publications and cross-country flight planning equipment. The minimum equipment list (MEL) will be introduced as well.

CONTENT:

Lesson Review

- _____ Aircraft Equipment List
- _____ VFR Sectional Chart
- _____ Airport / Facility Directory

Lesson Introduction

- _____ VFR Terminal Area Chart
- _____ Plotter
- _____ Flight Computer
- _____ Cockpit Management
- _____ Minimum Equipment List
- _____ Supplemental Oxygen

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of aeronautical publications, cross-country flight planning equipment, and the MEL concept.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- VFR Sectional Chart
- VFR Terminal Area Chart FAR
- AIM A/FD
- Vol 5: Segments 3-5; 16

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**STAGE II
LESSON 14
DUAL - GROUND
CROSS-COUNTRY
FLIGHT
PLANNING**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to cross-country flight planning.

CONTENT:

Lesson Introduction

- ___ Picking Checkpoints and Altitudes
- ___ Pilotage
- ___ Performance Calculations
- ___ Measuring True Course and Distance
- ___ AFM/POH
- ___ the Wind Triangle
- ___ Dead Reckoning

Lesson Introduction

- ___ Calculating Various Airspeeds
- ___ E6B
- ___ Diversion Procedures
- ___ Alternate Planning
- ___ Lost Procedures
- ___ Fuel Requirements for VFR Flight

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of cross-country flight planning and cross- country performance calculations.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR
- AIM
- Vol 5: Segments 5-6; 15
- Vol 6: Segment 5; 18

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**STAGE II
LESSON 15
DUAL - GROUND
AIRSPACE &
COMMUNICATIONS**

LESSON OBJECTIVE:

During this lesson, a review of airspace and communication requirements will be conducted.

CONTENT:

Lesson Introduction

- _____ Class A
- _____ Class B
- _____ Class C
- _____ Class D
- _____ Class E
- _____ Class G
- _____ TRSA Communications
- _____ FSS Communications
- _____ Approach Control
- _____ Departure Control
- _____ Clearance Delivery
- _____ Tower Communications
- _____ Lesson Grade/Date _____
- _____ Lesson time _____
- _____ CFI/Student Initials _____

Lesson Introduction

- _____ Ground Control
- _____ Runway and Taxiway Signs, Markings, and Lighting at Tower Controlled Fields
- _____ Runway Incursion Avoidance at Tower Controlled Fields
- _____ Readback / Hearback for Hold Short, Position and Hold, and Runway Crossing Instructions
- _____ ATC Light Gun Signals
- _____ Non-Tower Communications

COMPLETION STANDARDS:

At the completion of this lesson, the student will be familiar with various classes of airspace and their associated communication requirements.

REQUIRED STUDY:

- AC 91-73
- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR
- AIM
- Vol 5: Segment 17
- Vol 6: Segment 1

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**STAGE II
LESSON 16
DUAL - GROUND
ELECTRONIC AIDS
TO NAVIGATION**

LESSON OBJECTIVE:

During this lesson, the student will be introduced to electronic aids to navigation.

CONTENT:

Lesson Introduction

- _____ VOR Tuning and Identifying
- _____ VOR Intercepting and Tracking
- _____ ADF /NDB Tuning and Identifying
- _____ ADF /NDB Homing
- _____ ADF /NDB Intercepting and Tracking
- _____ ADF /NDB Errors

Lesson Introduction

- _____ GPS Modes of Operation
- _____ GPS Waypoints
- _____ GPS Direct To Operations
- _____ GPS Flight Plan Operations
- _____ GPS Nearest Functions

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of VOR tuning, identifying, tracking, and NDB tuning, intercepting, tracking. The student will also be aware of NDB errors and the basics of GPS use.

REQUIRED STUDY:

FAA-H-8083-3-AFH
 FAA-H-8083-25-PHAK
 AIM
 Vol 5: Segments 7-9

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**STAGE II
LESSON 17
DUAL - GROUND
NIGHT FLYING**

LESSON OBJECTIVE

During this lesson, the student will be introduced to night flying concepts.

CONTENT:

Lesson Introduction

- _____ Night Flying Overview
- _____ the Eye
- _____ Applicable FARs
- _____ Night Illusions
- _____ Night Vision
- _____ Night Scanning

Lesson Grade/Date _____

Lesson time _____

CFI/Student Initials _____

Lesson Introduction

- _____ Aircraft Lighting
- _____ Airport Lighting
- _____ Pilot Equipment for Night Flight
- _____ Chart Use at Night
- _____ Night Flight Preparations
- _____ Night Emergencies

COMPLETION STANDARDS:

At the completion of this lesson, the student will have knowledge of basic night flying concepts.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR
- AIM
- Vol 5: Segment 1-2

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE II
STAGE II
TEST**

**LESSON
OBJECTIVE:**

This stage test will determine that the student has accomplished the objectives of Stage II.

CONTENT:

TEST

- | | |
|-------------------------------------|-------------------------------------|
| _____ Principles of Navigation | _____ Airspace and Communications |
| _____ Publications & Equipment | _____ Electronic Aids to Navigation |
| _____ Cross-Country Flight Planning | _____ Night Flying |

TEST Grade/Date _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have passed a written test on the objectives in Stage II with a minimum score of 80%

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Pilot Practical Test Standards

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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END OF COURSE

END OF COURSE TEST

LESSON

OBJECTIVE:

This stage test will determine that the student has accomplished the objectives of the Course.

CONTENT:

TEST

- | | |
|---|--|
| <input type="checkbox"/> Airports | <input type="checkbox"/> Aeromedical |
| <input type="checkbox"/> Aerodynamics | <input type="checkbox"/> Principles of Navigation |
| <input type="checkbox"/> Aircraft Performance | <input type="checkbox"/> Publications & Equipment |
| <input type="checkbox"/> Weather | <input type="checkbox"/> Cross-Country Flight Planning |
| <input type="checkbox"/> Emergencies | <input type="checkbox"/> Airspace & Communications |
| <input type="checkbox"/> FAR | <input type="checkbox"/> Electronic Aids to Navigation |
| <input type="checkbox"/> Aircraft Systems | <input type="checkbox"/> Night Flying |
| <input type="checkbox"/> Airspace | |

TEST Grade/Date _____

CFI/Student Initials _____

COMPLETION STANDARDS:

At the completion of this lesson, the student will have passed a written test on the objectives in this course with a minimum score of 80%. They will be ready to take the FAA Private Pilot Knowledge Test.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Pilot Practical Test Standards

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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