

# **SPORTY'S®**

***WHAT YOU SHOULD KNOW®* SERIES**

## **PRIVATE PILOT TRAINING COURSE OUTLINE**

**(FLIGHT TRAINING SYLLABUS)**

**Sporty's Academy, Inc.  
Clermont County/Sporty's Airport  
Batavia, OH 45103**

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**[sportys.com](http://sportys.com)**

**STUDENT INFORMATION**

Name \_\_\_\_\_  
LAST FIRST MIDDLE

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone \_\_\_\_\_  
HOME WORK MOBILE

Email \_\_\_\_\_

Pilot Cert. \_\_\_\_\_  
TYPE CERT # DATE ISSUED

Emergency Contact \_\_\_\_\_

Phone \_\_\_\_\_ Relationship \_\_\_\_\_

**ENROLLMENT INFORMATION**

Course Title \_\_\_\_\_

Enrollment Date \_\_\_\_\_ Approved School Cert # \_\_\_\_\_

Medical Certificate \_\_\_\_\_  
CLASS DATE ISSUED

Previous School \_\_\_\_\_ Course Title \_\_\_\_\_

Training Credit \_\_\_\_\_  
FLIGHT GROUND

Approval of Training Credit \_\_\_\_\_  
CHIEF INSTRUCTOR

Remarks \_\_\_\_\_

**STAGE CHECK / KNOWLEDGE TEST COMPLETION RECORD**

Date \_\_\_\_\_ Stage \_\_\_\_\_ Ck Pilot \_\_\_\_\_ Date \_\_\_\_\_ Stage \_\_\_\_\_ Ck Pilot \_\_\_\_\_

Date \_\_\_\_\_ Stage \_\_\_\_\_ Ck Pilot \_\_\_\_\_

Date of Presolo Written \_\_\_\_\_ Grade \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Date of Knowledge Test \_\_\_\_\_ Grade \_\_\_\_\_

**ENDORSEMENT RECORD**

Pre-Training U.S. Citizenship Confirmation or TSA Alien Flight Training Requirements  
 Completed with Records Date \_\_\_\_\_ Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Initial Solo Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

90 Day Solo

Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Solo Cross-Country

Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

Complex / High Performance Airplane

Date \_\_\_\_\_ A/C Type \_\_\_\_\_ Inst. Int. \_\_\_\_\_

**COMPLETION INFORMATION**

Completion \_\_\_\_\_ Transfer \_\_\_\_\_ Terminated \_\_\_\_\_  
DATE DATE DATE

Records Certified Correct \_\_\_\_\_  
CHIEF INSTRUCTOR

Remarks \_\_\_\_\_

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## **TRAINING COURSE OUTLINE PRIVATE PILOT - AIRPLANE**

### **COURSE INTRODUCTION**

The Private Pilot Training Course Outline is the syllabus portion of the Sporty's Academy 14 CFR part 141\* Approved Private Pilot Certification Course. This outline 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 Outline also contains ground lessons appropriate to the Private Pilot certificate and supplemental lessons for additional training as necessary.

### **COURSE CONCEPT**

The Private Pilot Training Course Outline 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 ground lessons and viewing of the associated videos should be completed prior to the respective flight lessons. If a considerable length of time has elapsed between the ground lesson and the associated flight, the instructor may wish to conduct a short review of essential material.

### **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 Sporty's Private Pilot Training Course Outline is based on Sporty's *Complete* Learn To Fly Course, Private Pilot path, online and via apps (iOS, Apple TV, Android, Roku). It is important that the student view all six volumes in the Private Pilot path. For each lesson, there is additional study of specific video sections and this should be accomplished as part of a self-study program. Additional topics may also be assigned by the instructor. To maximize the learning benefit of the videos, the student should also review the additional study sections after completion of the lesson. This is particularly true of any subject areas where the student encountered difficulty.

\*14 CFR part 141 and 14 CFR part 61 refer to the appropriate parts of Title 14 of the Code of Federal Regulations. Title 14 covers aeronautics and space. The regulations in this title are often referred to as the Federal Aviation Regulations or FARs.

## **PREFLIGHT ORIENTATION**

Prior to each dual lesson, the instructor must provide the student with a thorough overview of the subject matter to be covered during the lesson. The instructor should select a quiet, private place to brief the student and explain the lesson material. It is important that the instructor define unfamiliar terms and explain the maneuvers and objectives of each lesson.

## **AIRPLANE PRACTICE**

Airplane practice must be conducted so that the student obtains the maximum benefit from each flight. Each flight, where applicable, should begin with a review of previously practiced maneuvers, as deemed necessary by the instructor, before any new maneuvers are introduced.

## **POSTFLIGHT EVALUATION**

The postflight evaluation is equally as important as the preflight orientation. During each postflight session, the student must be thoroughly debriefed. Noticeable advancement should be apparent and recommendations should be made for improvement, where appropriate. This action is a valuable instructional technique because it increases retention. The instructor must also discuss the elements of the next lesson. This prepares the student for the video assignment and will enhance the student's understanding.

## **LESSON TIMES**

Lesson times are specified as a guide to meeting the 14 CFR part 141 training requirements for the Private Pilot. 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. 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 CHECKS AND END-OF-COURSE TESTS**

Stage checks measure the student's accomplishments during each stage of training. This procedure provides close supervision of training and another opinion on the student's progress. 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. Failure to follow this progression may defeat the purpose of the stage check and lead to overall course breakdown.

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## GRADING INSTRUCTIONAL LESSONS

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

Each pilot operation or 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 instructional lesson will be assigned an overall grade based on the following criteria.

S = SATIS- FACTORY	The content of the lesson has been completed to the standards outlined in the individual lesson Completion Standards.
U = UNSATIS- FACTORY	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".

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## RECORDING SOLO LESSONS

The student will indicate each pilot operation performed on the solo lesson sheet with a check mark. Any pilot operation performed that is not listed must be noted in the remarks section. Cross-country routes shall also be recorded in the remarks section.

The overall solo lesson will be assigned a “grade” based on the following criteria.

SP = STUDENT PRACTICE	All completed solo lessons should be graded as Student Practice.
I = INCOMPLETE	The student did not complete all the pilot operations listed on the lesson sheet.

## GRADING NOTES

1. When an instructional lesson is graded unsatisfactory, only those pilot operations graded as “5” must be repeated to standards during the next lesson.
2. When any lesson is graded incomplete, the pilot operations not performed must be completed prior to attempting the pilot operations for the next lesson.
3. Use the “TOTAL IN COURSE: (D/S/G)” lines within the grading box to total the student’s dual, solo, and ground instruction times in the course after each lesson.

## TSA ALIEN FLIGHT STUDENT PROGRAM RECORDS

The TSA mandated Alien Flight Student Program (AFSP) has a number of compliance and record keeping requirements. Refer to the TSA website for details. The inside front cover of this book has a place to record that you have completed the requirements. That line is there to serve as a reminder to complete the TSA mandates but does not meet the documentation requirements.

Per the TSA, an instructor may elect to use an endorsement in the Student’s *and* the Instructor’s logbooks to document confirmation of a Student’s U.S. Citizenship (not allowed for aliens). The Instructor’s copy of the record must be kept for at least 5 years. The recommended text of the endorsement is as follows:

“I certify that [insert student’s name] has presented me a [insert type of document presented, such as a U.S. birth certificate or U.S. passport, and the relevant control or sequential number on the document, if any] establishing that [he or she] is a U.S. citizen or national in accordance with 49 CFR 1552.3(h). [Insert date and instructor’s signature and CFI number.]”

For details or clarification, refer to the TSA’s website.

## INTEGRATION OF REDBIRD'S GIFT FOR PRIVATE PILOT

Redbird's Guided Independent Flight Training (GIFT) for Private Pilot is a simulator-based maneuvers training supplement designed to help you achieve your goals faster and for less money. GIFT allows you to learn, practice, and get feedback on every maneuver required for your pilot's license, at your own pace, using cutting edge educational techniques that push you to reach your best performance level. Each GIFT lesson focuses on a specific flight maneuver or skill required to earn your Private Pilot Certificate and includes:

- A video and written pre-flight briefing
- A simulator mission with an AI-powered flight instructor that provides real-time coaching and corrections on your performance
- A post-flight debrief with objective scoring based on the FAA Airmen Certification Standards
- In-depth post-flight review and trend tracking by uploading your lesson history to Redbird Landing

All delivered in an FAA approved, Redbird Advanced Aviation Training Device.

Sporty's Academy has worked with Redbird to integrate their GIFT Modules into our Private Pilot TCO. The table below will assist in this integration.

TCO Lesson	GIFT Module(s)
2	1 Introduction Flight
	2 Straight and Level Flight
	4 Normal Turns
	5 Normal Climb
	8 Descent
	10 Taxi
5	13 Slow Flight
	4 Normal Turns
	5 Normal Climb
	11 Normal Takeoff
7	3 Changing A/S in Straight and Level Flight
	6 Best Rate of Climb
	7 Best Angle of Climb
	13 Slow Flight
9	17 Power Off (Landing) Stall
	18 Power On (Takeoff) Stall
	9 Steep Turns
11	17 Power Off (Landing) Stall
	18 Power On (Takeoff) Stall
	11 Normal Takeoff
	20 Normal Landing
	9 Steep Turns
13	14 Rectangular Course
	15 Turns Around a Point
	16 S-Turns
	11 Normal Takeoff
	20 Normal Landing

TCO Lesson	GIFT Module(s)
15	14 Rectangular Course
	15 Turns Around a Point
	16 S-Turns
	22 Traffic Pattern Operations
	11 Normal Takeoff
	20 Normal Landing
17	22 Traffic Pattern Operations
	23 Go Around
	24 Rejected Takeoff
	25 Emergency Approach and Landing
19	12 Crosswind Takeoff
	21 Crosswind Landing
	23 Go Around
	24 Rejected Takeoff
	25 Emergency Approach and Landing
21	13 Slow Flight
	17 Power Off (Landing) Stall
	18 Power On (Takeoff) Stall
	11 Normal Takeoff
	20 Normal Landing
	12 Crosswind Takeoff
	21 Crosswind Landing
23	GIFT Modules as Needed
25	GIFT Modules as Needed
27	GIFT Modules as Needed
29	GIFT Modules as Needed
31	GIFT Modules as Needed

TCO Lesson	GIFT Module(s)
32	GIFT Modules as Needed
34	26 Short Field Takeoff
	27 Short Field Landing
	28 Soft Field Takeoff
	29 Soft Field Landing
36	26 Short Field Takeoff
	27 Short Field Landing
	28 Soft Field Takeoff
	29 Soft Field Landing
38	GIFT Modules as Needed
40	32 Cross Country 1 (Short)
42	30 Lost Procedures
	34 Cross Country 3 (Diversion)
44	GIFT Modules as Needed
46	33 Cross Country 2 (Long)
48	19 Basic Instrument Flight
	31 Instrument Climb, Descent, Turns to a Heading
50	19 Basic Instrument Flight
	31 Instrument Climb, Descent, Turns to a Heading
51	GIFT Modules as Needed
52	GIFT Modules as Needed
53	GIFT Modules as Needed
54	GIFT Modules as Needed
56	GIFT Modules as Needed
58	GIFT Modules as Needed
59	GIFT Modules as Needed

## **PRIVATE PILOT - AIRPLANE TRAINING COURSE OUTLINE**

### **COURSE OBJECTIVES**

The student will obtain the aeronautical skill and experience necessary to meet the requirements for a Private Pilot Certificate for Airplane Single-Engine Land (ASEL).

### **COURSE COMPLETION STANDARDS**

The student must demonstrate through flight tests and school records that the aeronautical knowledge, skill, and experience requirements necessary to obtain a Private Pilot Certificate (ASEL) are accomplished.



### Course Time Allocation Table

STAGE	LESSON	FLIGHT TIME						GROUND TIME	
		DUAL	SOLO	INST	DUAL X-C	SOLO X-C	NIGHT	DISCUSSION	
I	1							1.2	
I	2	1.2						0.2	
	3							1.2	
I	4							1.2	
I	5	1.2						0.2	
I	6							1.2	
I	7	1.2						0.2	
I	8							1.2	
I	9	1.2						0.2	
I	10							1.2	
I	11	1.2						0.2	
I	12							1.2	
I	13	1.2						0.2	
I	14							1.2	
I	15	1.2						0.2	
I	16							1.2	
I	17	1.2						0.2	
I	18							1.2	
I	19	1.2						0.2	
I	20							1.2	
I	21	1.2						0.2	
I	22							1.2	
I	23	1.2						0.2	
I	24							1.2	
I	25	1.2						0.5	
I	26							1.2	
I - Stage Check	27	1.5						1.5	
I	28							1.2	
I	29	1.2						0.2	
I	30							1.2	
I	31	1.2						0.2	
I	32	1.0	0.6					0.2	
Stage I Totals		19.3	0.6					24.0	
II	33							1.2	
II	34	1.2						0.2	
II	35							1.2	
II	36	1.2						0.2	
II	37							1.2	
II	38		1.0						
II	39							1.2	
II	40	1.5						0.2	
II	41							1.2	
II	42	1.8						0.2	
II	43							1.2	
II	44		1.5						
II	45							1.2	
II	46	1.0						0.2	
II - Stage Check	47	1.2						1.5	
Stage II Totals		7.9	2.5					10.9	
III	48							1.2	
III	49							1.2	
III	50	1.5		0.5	1.5			0.2	
III	51	1.5		0.5	1.5			0.2	
III	52		2.0			2.0			
III	53							1.2	
III	54	1.0		0.5			1.0	0.2	
III	55	2.0		0.5	2.0		2.0	0.2	
III	56	1.5		0.5				0.2	
III	57							1.2	
III	58	1.5		0.5				0.2	
III - Stage Check	59	1.2		0.3				1.5	
Stage III Totals		10.2	2.0	3.3	5.0	2.0	3.0	7.5	
<b>COURSE TOTALS</b>		<b>37.4</b>	<b>5.1</b>	<b>3.3</b>	<b>5.0</b>	<b>2.0</b>	<b>3.0</b>	<b>42.4</b>	
<b>FAA 141 REQUIREMENTS</b>		<b>20.0</b>	<b>5.0</b>	<b>3.0</b>	<b>3.0</b>		<b>3.0</b>	<b>35.0</b>	
		<b>35 TOTAL</b>							

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## **STAGE I**

### **STAGE OBJECTIVE:**

During this stage, the student becomes familiar with the training airplane and learns how the airplane controls are used to establish and maintain specific flight attitudes. The student will gain the proficiency necessary to solo the training airplane in the traffic pattern and practice area.

### **STAGE COMPLETION STANDARDS:**

At the completion of this stage, the student will have demonstrated proficiency in the maneuvers required for solo flight. Also, the student will have successfully soloed in the local practice area.

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

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**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 Location and Use
- \_\_\_\_\_ Aircraft Preflight
- \_\_\_\_\_ Aeronautical Decision Making & Judgment

**Lesson Introduction**

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

**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.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Airplane Flying Handbook - Chapter 2
- FAA-H-8083-25-PHAK - Pilot's Handbook of Aeronautical Knowledge - Chapter 9
- Private Pilot Airman Certification Standards (Refer to Section 1 of the ACS Study Guide, which accompanies Sporty's *Complete Learn To Fly Course*.)
- Sporty's *Complete Learn To Fly Course* - Video Vol 1: Segments 1-13

**Notes:**

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**STAGE I  
LESSON 2  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

During this lesson, the student will become familiar with the engine start procedures, aircraft taxi, the before takeoff checklist, normal takeoffs, normal landings, and proper postflight securing of the aircraft. The student will also be introduced to the functioning of the basic aircraft controls.

**CONTENT:**

**Lesson Introduction**

Preflight Orientation

- \_\_\_\_\_ Dispatch Procedures
- \_\_\_\_\_ Preflight Inspection

Flight Orientation

- \_\_\_\_\_ Passenger Briefing
- \_\_\_\_\_ Flight Deck Management
- \_\_\_\_\_ Engine Starting
- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Taxiing / Brake Check
- \_\_\_\_\_ Before Takeoff Check
- \_\_\_\_\_ Normal Takeoff & Climb

**Lesson Introduction**

Flight Orientation

- \_\_\_\_\_ Aircraft Flight Instruments
- \_\_\_\_\_ Climb / Level Off
- \_\_\_\_\_ Straight & Level Flight / Use of Trim
- \_\_\_\_\_ Pitch / Power Coordination
- \_\_\_\_\_ Shallow Banked Turns
- \_\_\_\_\_ Descents / Level Off
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Collision Avoidance
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ After Landing Checks
- \_\_\_\_\_ Parking, Securing, & Proper Tie Down
- \_\_\_\_\_ Recovery Procedures

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will be able to perform an aircraft preflight, an engine start, and be able to taxi the aircraft to the run-up area and perform the before takeoff checks. The student will perform the aircraft control functions with assistance from the instructor.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2, 3, 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapters 6, 8, 9, & 14
- Private Pilot Airman Certification Standards
- Vol 1: Segments 12-22

**Notes:**

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

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Wind Direction Indicators
- \_\_\_\_\_ Airport, Runway, and Taxiway Signs
- \_\_\_\_\_ Airport, Runway, and Taxiway Markings
- \_\_\_\_\_ Airport, Runway, and Taxiway Lighting
- \_\_\_\_\_ Radio Calls and Checks
- \_\_\_\_\_ CTAF
- \_\_\_\_\_ Obtaining Airport Advisories

**Lesson Introduction**

- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Use of Aircraft Lighting during Taxi and Traffic Pattern Operations
- \_\_\_\_\_ Collision Avoidance
- \_\_\_\_\_ Scanning for Traffic
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Practice Area Operations

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- AC 91-73 - Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations
- FAA-H-8083-3-AFH - Chapters 1, 2, 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapters 13 & 14
- FAR - 14 CFR Aviation Regulations
- AIM - Aeronautical Information Manual - Chapter 2
- Vol 1: Segments 3-20
- Vol 2: Segment 14
- Vol 3: Segment 16
- Vol 5: Segment 7
- Vol 6: Segments 3 & 6

**Notes:**

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**STAGE I  
LESSON 4  
DUAL - GROUND  
AERODYNAMICS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**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 (Components)
- \_\_\_\_\_ Three Axes of Flight
- \_\_\_\_\_ Forces Acting on a Climbing Airplane
- \_\_\_\_\_ Angle of Attack

**Lesson Introduction**

- \_\_\_\_\_ Forces Acting on a Descending Airplane
- \_\_\_\_\_ Forces Acting on a Turning Airplane
- \_\_\_\_\_ Effects of Flaps
- \_\_\_\_\_ Critical Angle of Attack / Stalls
- \_\_\_\_\_ Spin Awareness

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of the four forces of flight, the basic components of aircraft construction, forces acting on aircraft when not in straight and level flight, and the effect of flaps.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 4
- FAA-H-8083-25-PHAK - Chapters 5 & 6
- Vol 1: Segments 21-26
- Vol 2: Segments 5-6

**Notes:**

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**STAGE I  
LESSON 5  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to flying the aircraft at various airspeeds and performing imminent stalls and recoveries.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Flight Deck Management

**Lesson Introduction**

- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-Off Stalls (Imminent)
- \_\_\_\_\_ Power-On Stalls (Imminent)
- \_\_\_\_\_ Stall Awareness
- \_\_\_\_\_ Spin Awareness
- \_\_\_\_\_ Use of Flaps
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Practice Area Operations

**COMPLETION STANDARDS:**

The student should be able to perform slow flight, imminent stalls, and stall recoveries with the instructor's assistance.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 4, 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapters 5 & 6
- Private Pilot Airman Certification Standards
- Vol 1: Segments 19-26

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 6  
DUAL - GROUND  
AIRPLANE STABILITY  
LOAD FACTORS  
WAKE TURBULENCE**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to static and dynamic stability, the dihedral effect, load factors, ground effect, wing tip vortices, and wake turbulence & avoidance procedures.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Static Stability (Positive / Negative)
- \_\_\_\_\_ Dynamic Stability (Positive / Negative)
- \_\_\_\_\_ Dihedral Effect
- \_\_\_\_\_ Ground Effect

**Lesson Introduction**

- \_\_\_\_\_ Wing Tip Vortices
- \_\_\_\_\_ Wake Turbulence & Avoidance
- \_\_\_\_\_ Load Factor & Gusts

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of static and dynamic stability, the dihedral effect, load factors, ground effect, wing tip vortices, and wake turbulence & avoidance procedures.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 5
- FAA-H-8083-25-PHAK - Chapters 5 & 6
- AIM - Chapter 7
- Vol 3: Segment 19

**Notes:**

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**STAGE I  
LESSON 7  
DUAL - LOCAL**

DATE _____ ACFT ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____ DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to constant airspeed climbs and descents and airspeed transitions.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-Off Stalls (Imminent)
- \_\_\_\_\_ Power-On Stalls (Imminent)
- \_\_\_\_\_ Practice Area Operations
- \_\_\_\_\_ Flight Deck Management

**Lesson Introduction**

- \_\_\_\_\_ Constant Airspeed Climbs
- \_\_\_\_\_ Constant Airspeed Descents
- \_\_\_\_\_ Airspeed Transitions
- \_\_\_\_\_ Climbs to Altitudes
- \_\_\_\_\_ Descents to Altitudes
- \_\_\_\_\_ Turns to Headings (Medium Bank)
- \_\_\_\_\_ Flight at Low Cruise Airspeeds

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will be able to execute straight and level flight, climbs, descents, and turns without assistance from the flight instructor. The student will hold assigned altitudes  $\pm 150$  feet, heading  $\pm 20^\circ$ , and airspeeds  $\pm 15$  knots. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning (e.g., aircraft buffet, stall horn, etc.) and will be maintained  $+20, -0$  knots. Stalls will be performed in both straight and level and turning flight. The student will have an awareness of the need for proper aircraft trimming during airspeed transitions.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 4
- FAA-H-8083-25-PHAK - Chapters 5, 6, & 11
- Private Pilot Airman Certification Standards
- Vol 1: Segments 24-26
- Vol 2: Segments 1-7

**Notes:**

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**STAGE I  
LESSON 8  
DUAL - GROUND  
AIRCRAFT  
PERFORMANCE**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**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**

- \_\_\_\_\_ Factors Affecting Performance
- \_\_\_\_\_ Takeoff Data Card
- \_\_\_\_\_ Airplane Weight and Balance

**Lesson Introduction**

- \_\_\_\_\_ Basic Performance Charts
- \_\_\_\_\_ Headwind / Crosswind Calculations

**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.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 3 & 5
- FAA-H-8083-25-PHAK - Chapters 5, 10, & 11
- AFM/POH - Airplane Flight Manual / Pilot Operating Handbook
- Vol 3: Segments 14, 16-19
- Vol 5: Segment 5
- Vol 6: Segment 7

**Notes:**

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**STAGE I  
LESSON 9  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to power-off and power-on full stalls as well as steep turns.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Constant Airspeed Climbs
- \_\_\_\_\_ Constant Airspeed Descents
- \_\_\_\_\_ Stall Awareness
- \_\_\_\_\_ Spin Awareness

**Lesson Introduction**

- \_\_\_\_\_ Power-Off Stalls (Full) w/ & w/o Flaps
- \_\_\_\_\_ Power-On Stalls (Full) w/o Flaps
- \_\_\_\_\_ Steep Turns

**COMPLETION STANDARDS**

The student will perform power-off and power-on full stalls and recoveries, as well as steep turns with minimal instructor assistance. The student shall maintain the assigned heading  $\pm 15^\circ$  and the required airspeed  $\pm 10$  knots during the constant airspeed climbs and descents.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 4
- FAA-H-8083-25-PHAK - Chapter 5
- Private Pilot Airman Certification Standards
- Vol 1: Review Segments as Needed
- Vol 2: Segments 7-10
- Vol 3: Segment 3

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 10  
DUAL - GROUND  
WEATHER**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**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

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- AC 00-6-AvWx - Aviation Weather
- AC 00-45-AvWxSvc - Aviation Weather Services
- FAA-H-8083-25-PHAK - Chapter 12
- Vol 3: Segments 7-8
- Vol 4: Segment 12
- Vol 5: Segment 11

**Notes:**

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**STAGE I  
LESSON 11  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to constant rate climbs and descents.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Normal Takeoffs & Landings
- \_\_\_\_\_ Steep Turns
- \_\_\_\_\_ Power-Off Stalls (Full)
- \_\_\_\_\_ Power-On Stalls (Full)

**Lesson Introduction**

- \_\_\_\_\_ Constant Rate Climbs
- \_\_\_\_\_ Constant Rate Descents

**COMPLETION STANDARDS:**

The student will perform constant rate climbs and descents with minimal assistance from the instructor. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +20, -0 knots. Stalls will be performed in both straight and level and turning flight.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 4
- FAA-H-8083-25-PHAK - Chapter 5
- Private Pilot Airman Certification Standards
- Vol 1: Segment 19; Review Other Segments as Needed
- Vol 2: Segments 1-11
- Vol 3: Segment 3

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 12  
DUAL - GROUND  
WEATHER REPORTS  
& FORECASTS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**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 Charts
- \_\_\_\_\_ Low-Level Prognostic Charts
- \_\_\_\_\_ Graphical Forecasts for Aviation
- \_\_\_\_\_ TAFs
- \_\_\_\_\_ METARs

**Lesson Introduction**

- \_\_\_\_\_ Winds and Temperatures Aloft
- \_\_\_\_\_ Pilot Reports
- \_\_\_\_\_ Obtaining a Weather Briefing FSS / Online
- \_\_\_\_\_ Standard / Abbreviated / Outlook Briefings
- \_\_\_\_\_ AWOS / ASOS Reports

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 13
- AC 00-6-AvWx
- AC 00-45-AvWxSvc
- AIM - Chapter 7
- Vol 3: Segments 9-12
- Vol 4: Segment 14
- Vol 5: Segment 13 & 20

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 13  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to ground reference maneuvers.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Takeoffs & Landings

**Lesson Introduction**

- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Wind Effect on Ground Track
- \_\_\_\_\_ Rectangular Course
- \_\_\_\_\_ S-Turns (across a Road)
- \_\_\_\_\_ Turns around a Point

**COMPLETION STANDARDS:**

The student will be able to fly specific ground tracks while maintaining airspeed  $\pm 10$  knots and altitude  $\pm 150$  feet. Airspeed will be maintained at  $V_y +15, -10$  knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 1, 5, 6, 7, & 8
- FAA-H-8083-25-PHAK - Chapter 14
- Private Pilot Airman Certification Standards
- Vol 2: Segment 1; Review Other Segments as Needed
- Vol 3: Segment 1

**Notes:**

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**STAGE I  
LESSON 14  
DUAL - GROUND  
WEATHER REPORTS  
& FORECASTS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to radar reports, severe weather reports and forecasts, NOTAMs, AIRMETs, and SIGMETs. The student will also be introduced to proper decision making relative to obtaining and analyzing weather data.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Radar Wx Reports
- \_\_\_\_\_ Severe Wx Reports and Forecasts
- \_\_\_\_\_ AIRMETs
- \_\_\_\_\_ SIGMETs / Convective SIGMETs
- \_\_\_\_\_ NOTAMs

**Lesson Introduction**

- \_\_\_\_\_ Wind Shear Reports
- \_\_\_\_\_ Wind Shear Recognition and Avoidance
- \_\_\_\_\_ Weather Related Aeronautical Decision Making & Judgment

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of radar weather reports, severe weather reports and forecasts, NOTAMs, AIRMETs, and SIGMETs, and be able to make an appropriate decision regarding a flight based upon the relevant weather data.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 13
- AC 00-6-AvWx
- AC 00-45-AvWxSvc
- AIM - Chapter 7
- Vol 3: Segments 9-12
- Vol 4: Segment 14
- Vol 5: Segments 13 & 20

**Notes:**

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**STAGE I  
LESSON 15  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the student will review ground reference maneuvers, maneuvering during slow flight, stalls, and steep turns.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Rectangular Course
- \_\_\_\_\_ S-Turns
- \_\_\_\_\_ Turns around a Point
- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-On & Power-Off Stalls

**Lesson Review**

- \_\_\_\_\_ Steep Turns
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Normal Takeoffs & Landings

**COMPLETION STANDARDS:**

The student will be able to fly specific ground tracks while maintaining airspeed  $\pm 10$  knots and altitude  $\pm 150$  feet. The student will be able to perform slow flight, stalls, constant altitude turns, and normal and crosswind takeoffs and landings without instructor assistance. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained  $+20, -0$  knots. Stalls will be performed in both straight and level and turning flight. Steep turns will be performed at  $45^\circ$  of bank  $\pm 5^\circ$ , while maintaining altitude  $\pm 200$  feet and with the roll out on the assigned heading  $\pm 15^\circ$ . Airspeed will be maintained at  $V_y + 15, -10$  knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 6 & 7
- FAA-H-8083-25-PHAK - Chapter 14
- Private Pilot Airman Certification Standards
- Vol 2: Review Segments as Needed
- Vol 3: Segments 3 & 16

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 16  
DUAL - GROUND  
EMERGENCIES**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

\_\_\_\_\_ Emergency Procedures (AFM/POH)

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 17
- AFM/POH
- FAR
- AIM - Chapter 6
- Vol 3: Segments 5-6

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 17  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to rejected takeoffs and go-around procedures.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Normal Approach & Landing

**Lesson Introduction**

- \_\_\_\_\_ Wake Turbulence Avoidance
- \_\_\_\_\_ Systems & Equipment Malfunctions
- \_\_\_\_\_ Rejected Takeoffs
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ Emergency Approach & Landing

**COMPLETION STANDARDS:**

The student will be familiar with the procedures used during system & equipment malfunctions, wake turbulence avoidance, rejected takeoffs, go-arounds, and emergency approaches and landings. The student will be able to perform rejected takeoffs and go-arounds with the instructor's assistance. Airspeed will be maintained at  $V_y +15, -5$  knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 1, 5, 8, & 17
- FAA-H-8083-25-PHAK - Chapters 2, 5, & 14
- AIM - Chapter 7
- Private Pilot Airman Certification Standards
- Vol 2: Segments 11-15
- Vol 3: Segments 4 & 16

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 18  
DUAL - GROUND  
FAR / AIM  
NTSB 830 / ACS  
LOGBOOKS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to single-pilot resource management, 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
- \_\_\_\_\_ AIM
- \_\_\_\_\_ Pilot Logbooks / Aircraft Logbooks
- \_\_\_\_\_ Airman Certification Standards

**Lesson Introduction**

- \_\_\_\_\_ FAA Advisory Circulars
- \_\_\_\_\_ Single-Pilot Resource Management
- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Risk Management
- \_\_\_\_\_ Task Management
- \_\_\_\_\_ Situational Awareness
- \_\_\_\_\_ Controlled Flight into Terrain Awareness
- \_\_\_\_\_ Automation Management

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of single-pilot resource management, 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.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2 & 4
- FAA-H-8083-25-PHAK - Chapter 2
- FAR
- AIM - Introduction & Table of Contents
- Private Pilot Airman Certification Standards
- Vol 1: Segments 1-2
- Vol 3: Segments 21-22
- Vol 4: Segment 3
- Vol 5: Segment 10
- Vol 6: Segment 1

**Notes:**

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**STAGE I  
LESSON 19  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

The student will be introduced to slips and crosswind takeoffs and landings. The effect of wind on ground track will be reviewed.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Normal Takeoffs & Landings
- \_\_\_\_\_ Rejected Takeoff
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Wind Effect on Ground Track

**Lesson Introduction**

- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Crosswind Takeoff & Climb
- \_\_\_\_\_ Side Slip
- \_\_\_\_\_ Forward Slip
- \_\_\_\_\_ Side Slip to a Landing
- \_\_\_\_\_ Crosswind Approach & Landing
- \_\_\_\_\_ Forward Slip to a Landing
- \_\_\_\_\_ No Flap Landing

**COMPLETION STANDARDS:**

The student will be able to perform slips, crosswind takeoffs and landings, and correct for wind effects with minimal instructor assistance. Airspeed will be maintained at  $V_y +15, -5$  knots during the climb after a normal takeoff or go-around. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapter 2
- Private Pilot Airman Certification Standards
- Vol 2: Segment 13
- Vol 3: Segments 1-4

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 20  
DUAL - GROUND  
AIRCRAFT SYSTEMS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to fuel, electrical, environmental, and wing flap systems.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Fuel System
- \_\_\_\_\_ Electrical System
- \_\_\_\_\_ Environmental System

**Lesson Introduction**

- \_\_\_\_\_ Primary Flight Controls & Trim Systems
- \_\_\_\_\_ Leading Edge Devices & Spoilers
- \_\_\_\_\_ Wing Flap System

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of fuel, electrical, environmental, and wing flap systems.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapters 11 & 14
- AFM/POH
- Vol 1: Segments 4 & 10
- Vol 3: Segment 23

**Notes:**

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**STAGE I  
LESSON 21  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____	
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____	DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, slow flight, stalls, and normal and crosswind takeoffs and landings will be reviewed.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-Off Stalls
- \_\_\_\_\_ Power-On Stalls

**Lesson Review**

- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Takeoffs & Landings
- \_\_\_\_\_ Crosswind Takeoffs & Landings

**COMPLETION STANDARDS:**

The student will be able to perform slow flight, stalls, stall recoveries, and crosswind takeoffs and landings with minimal assistance from the instructor. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +15, -0 knots. Stalls will be performed in both straight and level and turning flight. Airspeed will be maintained at  $V_y +15, -5$  knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained +10, -5 knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 4, 5, & 8
- FAA-H-8083-25-PHAK - Chapters 5 & 14
- AIM - Chapter 4
- Private Pilot Airman Certification Standards
- Vol 1: Review Segments as Needed
- Vol 2: Review Segments as Needed

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 22  
DUAL - GROUND  
AIRCRAFT SYSTEMS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Powerplant
- \_\_\_\_\_ Oil System
- \_\_\_\_\_ Ignition System
- \_\_\_\_\_ Carburetor Heat / Air Induction System
- \_\_\_\_\_ Propeller

**Lesson Introduction**

- \_\_\_\_\_ Hydraulic System
- \_\_\_\_\_ Landing Gear System
- \_\_\_\_\_ Aircraft Equipment List
- \_\_\_\_\_ VFR Required Equipment
- \_\_\_\_\_ Inoperative Equipment

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapters 3 & 7
- AFM/POH
- FAR
- Vol 1: Segments 8-9
- Vol 2: Segments 3-4
- Vol 6: Segment 13

**Notes:**

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**STAGE I  
LESSON 23  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the instructor will review takeoffs and landings in preparation for solo flight.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Crosswind Takeoff & Climb
- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Engine Starting
- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check

**Lesson Review**

- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Side Slip to a Landing
- \_\_\_\_\_ Crosswind Approach & Landing
- \_\_\_\_\_ Forward Slip to a Landing
- \_\_\_\_\_ No Flap Landing
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ After Landing Checks
- \_\_\_\_\_ Parking, Securing, & Proper Tie Down

**COMPLETION STANDARDS:**

Takeoffs, landings, and go-arounds should be performed without instructor assistance. Airspeed will be maintained at  $V_y +15, -5$  knots during the climb after a normal takeoff. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 750 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2, 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapter 14
- AIM - Chapter 4
- Private Pilot Airman Certification Standards
- Vol 1: Review Segments as Needed
- Vol 2: Review Segments as Needed
- Vol 3: Review Segments as Needed

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 24  
DUAL - GROUND  
AIRCRAFT SYSTEMS  
MAINTENANCE**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to aircraft flight instruments and systems, and aircraft maintenance requirements.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Vacuum System
- \_\_\_\_\_ Gyroscopic Instruments
- \_\_\_\_\_ Pitot-Static System
- \_\_\_\_\_ Pitot-Static Instruments
- \_\_\_\_\_ Electric Instruments

**Lesson Introduction**

- \_\_\_\_\_ Avionics Systems
- \_\_\_\_\_ Deicing and Anti-icing Systems
- \_\_\_\_\_ Magnetic Compass and Associated Errors
- \_\_\_\_\_ Maintenance Requirements
- \_\_\_\_\_ Service Bulletins / Airworthiness Directives

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of the aircraft flight instruments and systems, and aircraft maintenance requirements.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapters 7 & 8
- AFM/POH
- Vol 1: Segment 6
- Vol 3: Segments 13 & 15
- Vol 5: Segment 3

**Notes:**

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**STAGE I  
LESSON 25  
DUAL - LOCAL**

DATE _____ ACFT ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.2) _____ DISCUSSION: (0.5) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

**Prior to this flight**, the instructor will administer and grade a presolo written exam. **Prior to the flight**, the instructor will review all incorrect answers with the student. During this lesson, the student will review correct operating procedures prior to the stage check.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Engine Starting
- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check
- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Normal and/or Crosswind Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Side Slip to a Landing
- \_\_\_\_\_ Forward Slip to a Landing
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ Emergency Approach & Landing
- \_\_\_\_\_ Maneuvering during Slow Flight

**Lesson Review**

- \_\_\_\_\_ Straight and Level Flight
- \_\_\_\_\_ Turns to Headings
- \_\_\_\_\_ Constant Airspeed Climbs
- \_\_\_\_\_ Constant Airspeed Descents
- \_\_\_\_\_ Steep Turns
- \_\_\_\_\_ Systems and Equipment Malfunctions
- \_\_\_\_\_ Normal and/or Crosswind Approach & Landing
- \_\_\_\_\_ Power-Off Stalls
- \_\_\_\_\_ Power-On Stalls
- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Practice Area Operations

**COMPLETION STANDARDS:**

This lesson is complete when the student satisfactorily completes a presolo written exam and the student demonstrates correct procedures for preflight duties and all other tasks to a level that allows the safe conduct of solo flight in the local area. The student shall maintain or level-off at assigned altitude  $\pm 150$  feet, maintain or roll out on headings  $\pm 15^\circ$ , and maintain airspeed  $\pm 10$  knots while performing climbs, descents, turns, straight and level, and traffic pattern operations unless otherwise specified. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained  $+15, -0$  knots. Stalls will be performed in both straight and level and turning flight. Steep turns will be performed at  $45^\circ$  of bank  $\pm 5^\circ$ , while maintaining altitude  $\pm 150$  feet and with the roll out on the assigned heading  $\pm 10^\circ$ . Airspeed will be maintained at  $V_y +10, -5$  knots during the climb after takeoff. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2, 4, 5, & 8
- FAA-H-8083-25-PHAK - Chapters 2, 5, & 14
- AIM - Chapter 4
- Private Pilot Airman Certification Standards
- Vol 1: Review Segments as Needed
- Vol 2: Review Segments as Needed
- Vol 3: Segments 23-25; Review Segments as Needed

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 26  
DUAL - GROUND  
AIRSPACE**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to controlled and uncontrolled airspace, the classes of airspace, special use airspace, and cloud clearances.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Uncontrolled Airspace
- \_\_\_\_\_ Controlled Airspace
- \_\_\_\_\_ Class A
- \_\_\_\_\_ Class B
- \_\_\_\_\_ Class C
- \_\_\_\_\_ Class D

**Lesson Introduction**

- \_\_\_\_\_ Class E
- \_\_\_\_\_ Class G
- \_\_\_\_\_ Special Use Airspace
- \_\_\_\_\_ Other Airspace Areas
- \_\_\_\_\_ Cloud Clearance & Visibility Requirements

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of controlled and uncontrolled airspace, the classes of airspace, special use airspace, and cloud clearances.

**ADDITIONAL STUDY:**

FAR  
AIM - Chapter 3  
Vol 4: Segment 19

**Notes:**

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**PRE-STAGE CHECK – TIME SUMMARY**

This page is intended to be used by the student's flight instructor to summarize the times accumulated through this course of instruction and determine that the times are sufficient for the stage requirements. The check instructor should verify that these times are acceptable for completion of the stage.

DATE \_\_\_\_\_ STUDENT NAME \_\_\_\_\_ STUDENT SIGNATURE \_\_\_\_\_

INSTRUCTOR # \_\_\_\_\_ INSTRUCTOR SIGNATURE \_\_\_\_\_

**STAGE TOTALS**

FLIGHT TIME (DUAL): \_\_\_\_\_

FLIGHT TIME (SOLO): \_\_\_\_\_

FLIGHT TIME (DUAL CROSS-COUNTRY): \_\_\_\_\_

FLIGHT TIME (SOLO CROSS-COUNTRY): \_\_\_\_\_

FLIGHT TIME (NIGHT): \_\_\_\_\_

ATD/FTD/SIM: \_\_\_\_\_

INSTRUMENT: \_\_\_\_\_ (In flight only.)

GROUND/DISCUSSION: \_\_\_\_\_ (Be sure to include the Ground Lesson times.)

**STAGE I  
LESSON 27  
STAGE I CHECK**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.5) _____		DISCUSSION: (1.5) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Review**

**ORAL**

- \_\_\_\_\_ Operation of Systems
- \_\_\_\_\_ Certificates & Documents
- \_\_\_\_\_ Aircraft Logbooks
- \_\_\_\_\_ Use of Checklists
- \_\_\_\_\_ Preflight Inspection
- \_\_\_\_\_ Airplane Servicing
- \_\_\_\_\_ Weather Information
- \_\_\_\_\_ Performance & Limitations

**FLIGHT**

- \_\_\_\_\_ Dispatch Procedures
- \_\_\_\_\_ Preflight Inspection
- \_\_\_\_\_ Engine Starting
- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check

**Lesson Review**

**FLIGHT (CONTINUED)**

- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Crosswind Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Collision Avoidance Precautions
- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-Off Stalls
- \_\_\_\_\_ Power-On Stalls
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Crosswind Approach & Landing
- \_\_\_\_\_ Emergency Approach & Landing
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ Systems & Equipment Malfunctions
- \_\_\_\_\_ Practice Area Operations
- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ After Landing Checks
- \_\_\_\_\_ Parking, Securing, & Proper Tie Down
- \_\_\_\_\_ Recovery Procedures

**COMPLETION STANDARDS:**

This lesson is complete when the student can competently perform preflight duties and all other procedures necessary for the safe conduct of a solo flight in the local training area. The student shall maintain or level-off at assigned altitudes  $\pm 150$  feet, maintain or roll out on headings  $\pm 15^\circ$ , and maintain airspeeds  $\pm 10$  knots while performing climbs, descents, turns, straight and level, and traffic pattern operations unless otherwise specified. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained  $+15, -0$  knots. Stalls will be performed in both straight and level and turning flight. Airspeed will be maintained at  $V_y + 10, -5$  knots during the climb after takeoff or a go-around. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

**Notes:**

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**STAGE I  
LESSON 28  
DUAL - GROUND  
CHARTS & PUBLICATIONS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to VFR sectional charts and the Chart Supplements.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ VFR Sectional Charts
- \_\_\_\_\_ Chart Supplements
- \_\_\_\_\_ Planning for Alternatives

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of VFR sectional charts and the Chart Supplements.

**ADDITIONAL STUDY:**

VFR Sectional  
Chart Supplements  
Vol 4: Segments 3 & 7

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE I  
LESSON 29  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

During this lesson, the instructor will review takeoffs and landings to refine the student's level of proficiency for solo flight.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Crosswind Takeoff & Climb
- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Approach & Landing

**Lesson Review**

- \_\_\_\_\_ Crosswind Approach & Landing
- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ After Landing Checks
- \_\_\_\_\_ Parking & Securing

**COMPLETION STANDARDS:**

Takeoffs, landings, and go-arounds should be performed without instructor intervention and with minimal coaching. The student should demonstrate safe and effective technique during all traffic pattern operations, accomplishing all takeoffs, landings, and go-arounds to a proficiency level required for solo flight. Airspeed will be maintained at  $V_y +10, -5$  knots during the climb after takeoff or a go-around. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2, 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapters 2 & 14
- AIM - Chapter 4
- Private Pilot Airman Certification Standards
- Vol 2: Review Segments as Needed
- Vol 3: Review Segments as Needed

**Notes:**

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**STAGE I  
LESSON 30  
DUAL - GROUND  
AEROMEDICAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to aeromedical and human 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

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 17
- FAR
- AIM - Chapter 8
- Vol 3: Segments 23-24

**Notes:**

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**STAGE I  
LESSON 31  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____			

**LESSON OBJECTIVE:**

During this lesson, the instructor will review takeoffs and landings to refine the student's level of proficiency for solo flight.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check
- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Normal and/or Crosswind Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Systems and Equipment Malfunctions

**Lesson Review**

- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Go-Around / Rejected Landing
- \_\_\_\_\_ Normal and/or Crosswind Approach & Landing
- \_\_\_\_\_ Emergency Approach & Landing

**COMPLETION STANDARDS:**

The student will demonstrate the safe completion of the tasks associated with traffic pattern operations, with the outcome never seriously in doubt. The student should accomplish this without assistance and coaching from the instructor. Airspeed will be maintained at  $V_y +10, -5$  knots during the climb after takeoff or a go-around. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 500 feet of a designated point of landing.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2, 5, 7, 8, & 17
- FAA-H-8083-25-PHAK - Chapters 2 & 14
- AIM - Chapters 4 & 6
- Private Pilot Airman Certification Standards
- Vols 1-3: Review Segments as Needed

**Notes:**

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**STAGE I  
LESSON 32  
DUAL AND SOLO - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME DUAL: (1.0) _____ SOLO: (0.6) _____		
DISCUSSION: (0.2) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During the dual portion of the lesson, the instructor will review takeoff and landing procedures to determine that the student is proficient and competent for solo flight. During the lesson, **after being properly endorsed by the flight instructor**, the student will fly a supervised solo flight in the traffic pattern.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Review Student Handbook / Operations Manual Concerning Solo Requirements
- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Takeoffs and Landings

**Supervised Solo**

- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check
- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Postflight Procedures

**COMPLETION STANDARDS:**

This lesson and Stage I are complete when the student accomplishes a solo flight supervised by the instructor. The student will adhere to established traffic pattern procedures and demonstrate that solo flight in the traffic pattern can be accomplished safely.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 2, 5, 7, 8, & 17
- FAA-H-8083-25-PHAK - Chapters 2 & 14
- AIM - Chapters 4 & 6
- Private Pilot Airman Certification Standards

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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## **STAGE II**

### **STAGE OBJECTIVE:**

This stage introduces the student to navigating to nearby airports by use of pilotage. The student will also be introduced to diversion, lost procedures, and planning for alternatives if the planned flight cannot be completed. The student will also be introduced to maximum performance takeoffs and landings.

### **STAGE COMPLETION STANDARDS:**

The student will demonstrate performance to a standard that meets performance criteria for a Private Pilot Certificate (ASEL).

**STAGE II  
LESSON 33  
DUAL - GROUND  
PRINCIPLES OF  
NAVIGATION**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**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

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 6
- FAA-H-8083-25-PHAK - Chapter 16
- Vol 4: Segments 3, 5, & 6
- Vol 5: Segment 3

**Notes:**

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**STAGE II  
LESSON 34  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____			

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to the maximum takeoff and landing performance of the training airplane. The student shall develop an understanding of the maximum performance capabilities of the aircraft.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Passenger Briefing
- \_\_\_\_\_ Normal and/or Crosswind Takeoff & Climb
- \_\_\_\_\_ Normal and/or Crosswind Approach & Landing

**Lesson Introduction**

- \_\_\_\_\_ Single-Pilot Resource Management
- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Soft-Field Approach & Landing

**COMPLETION STANDARDS:**

The student will be able to explain what runway conditions necessitate the use of short and soft-field takeoff and landing techniques. In addition, the student will be able to demonstrate the correct procedure to be used under these conditions. The maximum performance takeoffs and landings will be performed with minimal assistance from the instructor. Airspeed will be maintained at  $V_y +10, -5$  knots during the climb after a normal or crosswind takeoff. Recommended approach airspeed will be maintained  $+10, -5$  knots and the touchdown will be beyond and within 400 feet of a designated point of landing for normal or crosswind landings.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 5 & 8
- FAA-H-8083-25-PHAK - Chapter 11
- Private Pilot Airman Certification Standards
- Vol 5: Segments 5-8

**Notes:**

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**STAGE II  
LESSON 35  
DUAL - GROUND  
PUBLICATIONS &  
EQUIPMENT**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**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
- \_\_\_\_\_ Chart Supplements

**Lesson Introduction**

- \_\_\_\_\_ VFR Terminal Area Chart
- \_\_\_\_\_ Plotter
- \_\_\_\_\_ Flight Computer
- \_\_\_\_\_ Flight Deck Management
- \_\_\_\_\_ Minimum Equipment List
- \_\_\_\_\_ Supplemental Oxygen

**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.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapters 2, 7, 9, 14, & 16
- VFR Sectional Chart
- VFR Terminal Area Chart
- FAR
- AIM - Chapter 9
- Chart Supplements
- Vol 4: Segments 3-6; 15 & 18

**Notes:**

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**STAGE II  
LESSON 36  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____			

**LESSON OBJECTIVE:**

During this lesson, the student will practice maneuvers to gain proficiency and confidence in his or her ability to obtain the maximum performance from the aircraft.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Passenger Briefing
- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-Off Stalls (Full)
- \_\_\_\_\_ Power-On Stalls (Full)
- \_\_\_\_\_ Forward Slip to a Landing

**Lesson Review**

- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Soft-Field Approach & Landing

**COMPLETION STANDARDS:**

The student will perform takeoffs and landings smoothly, while maintaining good directional control. Slow flight will be performed at an airspeed at which any further increase in angle of attack, increase in load factor, or reduction in power, would result in a stall warning, and will be maintained +10, -0 knots. During short and soft-field takeoffs, airspeed should be maintained at  $V_x +10$ , -5 knots until obstacles are cleared, and  $V_y +10$ , -5 knots after that. All approaches will be stabilized and desired airspeed will be maintained +10, -5 knots for all landings. The touchdown will be beyond and within 400 feet of a designated point of landing for short-field landings.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 4, 5, & 8
- FAA-H-8083-25-PHAK - Chapter 11
- Private Pilot Airman Certification Standards
- Vol 2: Review segments as needed
- Vol 5: Segment 8

**Notes:**

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**STAGE II  
LESSON 37  
DUAL - GROUND  
CROSS-COUNTRY  
FLIGHT PLANNING**

DATE _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Applicable FARs
- \_\_\_\_\_ Measuring True Course and Distance
- \_\_\_\_\_ Picking Checkpoints and Altitudes
- \_\_\_\_\_ Pilotage

**Lesson Introduction**

- \_\_\_\_\_ Airplane Flight Manual / Pilots Operating Handbook (AFM/POH)
- \_\_\_\_\_ Performance Calculations

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapters 9 & 16
- FAR
- AIM - Chapters 1 & 9
- Vol 4: Segments 5-7
- Vol 5: Segment 5

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE II  
LESSON 38  
SOLO - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One)	SP I
STUDENT NAME _____		STUDENT SIGNATURE _____	
FLIGHT TIME SOLO: (1.0) _____		DISCUSSION: ( ) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

During this lesson, the student will practice maneuvers to gain proficiency and confidence in his or her ability to solo an aircraft.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Normal and/or Crosswind Takeoff & Climb
- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Rectangular Course
- \_\_\_\_\_ S-Turns
- \_\_\_\_\_ Turns around a Point
- \_\_\_\_\_ Steep Turns
- \_\_\_\_\_ Maneuvering during Slow Flight

**Lesson Review**

- \_\_\_\_\_ Power-Off Stalls
- \_\_\_\_\_ Power-On Stalls
- \_\_\_\_\_ Forward Slip to Landing
- \_\_\_\_\_ Normal and/or Crosswind Approach & Landing
- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Soft-Field Approach & Landing
- \_\_\_\_\_ Other (As Assigned by Instructor)

**COMPLETION STANDARDS:**

The lesson is complete when the student has safely conducted the assigned solo flight. During this lesson, the student should attempt to gain proficiency in the solo operation of the aircraft.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 4, 5, 6, & 8
- FAA-H-8083-25-PHAK - Chapter 5
- Private Pilot Airman Certification Standards
- Vol 1: Review Segments as Needed
- Vol 2: Review Segments as Needed
- Vol 5: Segment 8

**Notes:**

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**STAGE II  
LESSON 39  
DUAL - GROUND  
CROSS-COUNTRY  
FLIGHT PLANNING**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ The Wind Triangle
- \_\_\_\_\_ Dead Reckoning
- \_\_\_\_\_ Calculating Various Airspeeds

**Lesson Introduction**

- \_\_\_\_\_ Electronic E6B Flight Computer
- \_\_\_\_\_ Manual E6B

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of additional concepts associated with cross-country flight planning.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 16
- FAR
- AIM - Chapter 1
- Vol 4: Segments 5, 6, & 18

**Notes:**

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**STAGE II  
LESSON 40  
DUAL - PILOTAGE**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.5) _____		DISCUSSION: (0.2) _____	
APT IDs: _____ / _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____	

**LESSON OBJECTIVE:**

During this lesson, the student will determine the course and fly round-trip to an airport more than 25 nautical miles, but less than 50 nautical miles from the airport at which the instruction is given. The student will complete at least one landing at this airport, and at least one additional landing at an airport within 25 nautical miles of the airport where the student normally trains. In addition, the student will follow the course solely by visual reference to landmarks and using the magnetic compass. The instructor will introduce radio communications that may be encountered during pilotage flights.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Passenger Briefing
- \_\_\_\_\_ Runway Incursion Avoidance
- \_\_\_\_\_ Single-Pilot Resource Management
- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Traffic Pattern Operations
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Radio Communications at Non-Towered Airports

**Lesson Introduction**

- \_\_\_\_\_ VFR Navigation Charts
- \_\_\_\_\_ Flight Publications
- \_\_\_\_\_ Radio Communications with Flight Service
- \_\_\_\_\_ Route Selection
- \_\_\_\_\_ Pilotage
- \_\_\_\_\_ Use of Magnetic Compass
- \_\_\_\_\_ Unfamiliar Airport Operation
- \_\_\_\_\_ Critical Weather Recognition
- \_\_\_\_\_ Estimates of Heading & Fuel Consumption

**COMPLETION STANDARDS:**

The student will be able to identify selected landmarks, at all times verify position within 5 nautical miles, maintain heading  $\pm 15^\circ$ , and maintain altitude  $\pm 200$  feet of the selected appropriate altitude. The student will also demonstrate appropriate radio communication procedures at non-towered airports and with Flight Service.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapters 2, 14, & 16
- AIM - Chapters 1, 2, 4, & 9
- Private Pilot Airman Certification Standards
- Vol 4: Segments 3-7; 16 & 18
- Vol 5: Segment 19

**Notes:**

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**STAGE II  
LESSON 41  
DUAL - GROUND  
CROSS-COUNTRY  
FLIGHT PLANNING**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Diversion Procedures
- \_\_\_\_\_ Alternate Planning
- \_\_\_\_\_ Lost Procedures

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of additional concepts associated with cross-country flight planning.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 16
- FAR
- AIM - Chapters 1, 6, & 9
- Vol 4: Segment 5-7
- Vol 5: Segment 19

**Notes:**

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**STAGE II  
LESSON 42  
DUAL - PILOTAGE**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.8) _____		DISCUSSION: (0.2) _____	
APT ID: _____		TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

**LESSON OBJECTIVE:**

During this lesson, the student will determine the course to fly to an airport more than 25 nautical miles from the airport at which instruction is given. The student will follow the course solely by visual reference to landmarks and using the magnetic compass. The instructor will introduce emergency descents, planning for alternates, and lost procedures.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Single-Pilot Resource Management
- \_\_\_\_\_ Aeronautical Decision Making & Judgment
- \_\_\_\_\_ Estimates of Heading & Fuel Consumption
- \_\_\_\_\_ Critical Weather Recognition
- \_\_\_\_\_ Unfamiliar Airport Operation
- \_\_\_\_\_ Route Selection
- \_\_\_\_\_ Pilotage
- \_\_\_\_\_ VFR Navigation Charts & Publications

**Lesson Introduction**

- \_\_\_\_\_ Emergency Descent
- \_\_\_\_\_ Planning for Alternatives
- \_\_\_\_\_ Diversion to an Alternate Airport
- \_\_\_\_\_ Lost Procedures

**COMPLETION STANDARDS:**

The student will be able to identify selected landmarks, at all times verify position within 3 nautical miles, maintain heading  $\pm 15^\circ$ , and maintain the selected appropriate altitude  $\pm 200$  feet. The student will explain the conditions and procedures for diversion to an alternate. The student will also be able to effectively communicate at non-towered airports and with Flight Service.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 5, 7, & 8
- FAA-H-8083-25-PHAK - Chapters 2, 14, & 16
- AIM - Chapters 1, 2, 4, & 9
- Private Pilot Airman Certification Standards
- Vol 4: Segments 3-7; 16 & 18
- Vol 5: Segment 19

**Notes:**

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**STAGE II  
LESSON 43  
DUAL - GROUND  
AIRSPACE &  
COMMUNICATIONS**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**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

**Lesson Introduction**

- \_\_\_\_\_ Tower Communications
- \_\_\_\_\_ 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, Line Up and Wait, and Runway Crossing Instructions
- \_\_\_\_\_ ATC Light Gun Signals

**COMPLETION STANDARDS:**

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

**ADDITIONAL STUDY:**

- AC 91-73 - Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations
- FAA-H-8083-3-AFH - Chapter 2
- FAA-H-8083-25-PHAK - Chapters 14 & 16
- FAR
- AIM - Chapters 1, 2, 3, 4, 5, & 9
- Vol 4: Segments 17 & 19
- Vol 5: Segments 1, 2, & 7
- Vol 6: Segments 3 & 6

**Notes:**

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**STAGE II  
LESSON 44  
SOLO - PILOTAGE**

DATE _____	ACFT ID _____	GRADE (Circle One) SP I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
FLIGHT TIME SOLO: (1.5) _____		DISCUSSION: ( ) _____	
APT ID: _____		TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

**LESSON OBJECTIVE:**

During this lesson, the student will complete a flight to an airport located within 25 nautical miles of the airport where the student normally trains and return to the original departure point. The student will practice takeoffs and landings in order to increase proficiency. The instructor will properly endorse the student for this flight.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Normal and/or Crosswind Takeoff & Climb
- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Normal and/or Crosswind Approach & Landing

**Lesson Review**

- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Soft-Field Approach & Landing
- \_\_\_\_\_ Other (As Assigned by the Instructor)

**COMPLETION STANDARDS:**

The lesson is complete when the student has conducted the assigned flight to another airport and returns. During this lesson, the student should continue to gain proficiency in each of the listed maneuvers.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 5 & 8
- FAA-H-8083-25-PHAK - Chapters 11 & 14
- Private Pilot Airman Certification Standards
- Vol 4: Review Segments as Needed
- Vol 5: Review Segments as Needed

**Notes:**

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**STAGE II  
LESSON 45  
DUAL - GROUND  
ELECTRONIC AIDS  
TO NAVIGATION**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ VOR Tuning and Identifying
- \_\_\_\_\_ VOR Intercepting and Tracking
- \_\_\_\_\_ GPS Modes of Operation
- \_\_\_\_\_ GPS Waypoints
- \_\_\_\_\_ GPS Direct-To Operations
- \_\_\_\_\_ GPS Flight Plan Operations
- \_\_\_\_\_ GPS Nearest Functions

**Lesson Introduction (if equipped)**

- \_\_\_\_\_ Autopilot Principles of Operation
- \_\_\_\_\_ Autopilot Errors, Irregularities, & Failure Modes
- \_\_\_\_\_ Autopilot Disconnect Options
- \_\_\_\_\_ Autopilot Limitations
- \_\_\_\_\_ Installed Autopilot Specific Procedures
- \_\_\_\_\_ ADF / NDB Tuning and Identifying
- \_\_\_\_\_ ADF / NDB Homing
- \_\_\_\_\_ ADF / NDB Intercepting and Tracking
- \_\_\_\_\_ ADF / NDB Errors

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of VOR tuning, identifying, & tracking. The student will also be aware of the basics of GPS use. If the training aircraft is equipped with an autopilot, the student should have a knowledge of its basic operation and limitations along with the ways to disconnect the autopilot. If the training aircraft is equipped with an ADF, the student should have a knowledge of NDB tuning, intercepting, & tracking along with potential NDB errors.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 5, 8, & 17
- FAA-H-8083-25-PHAK - Chapter 16
- AIM - Chapters 1 & 6
- Private Pilot Airman Certification Standards
- Vol 4: Review Segments as Needed
- Vol 5: Review Segments as Needed

**Notes:**

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**STAGE II  
LESSON 46  
DUAL - LOCAL**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.0) _____		DISCUSSION: (0.2) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

During this lesson, the instructor will evaluate student proficiency with respect to maximum performance takeoffs and landings and pilotage procedures as well as en route systems and equipment problems.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Pilotage
- \_\_\_\_\_ Diversion
- \_\_\_\_\_ Lost Procedure

**Lesson Review**

- \_\_\_\_\_ System & Equipment Malfunctions
- \_\_\_\_\_ Emergency Approach & Landing
- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Soft-Field Approach & Landing
- \_\_\_\_\_ Emergency Descent

**COMPLETION STANDARDS:**

The student shall perform all maneuvers to the standards established by the current Private Pilot Airman Certification Standards.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 8 & 17
- FAA-H-8083-25-PHAK - Chapters 14 & 16
- Private Pilot Airman Certification Standards
- Vol 4: Review Segments as Needed
- Vol 5: Review Segments as Needed

**Notes:**

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**PRE-STAGE CHECK – TIME SUMMARY**

This page is intended to be used by the student’s flight instructor to summarize the times accumulated through this course of instruction and determine that the times are sufficient for the stage requirements. The check instructor should verify that these times are acceptable for completion of the stage.

DATE \_\_\_\_\_ STUDENT NAME \_\_\_\_\_ STUDENT SIGNATURE \_\_\_\_\_  
INSTRUCTOR # \_\_\_\_\_ INSTRUCTOR SIGNATURE \_\_\_\_\_

**STAGE TOTALS**

FLIGHT TIME (DUAL): \_\_\_\_\_  
FLIGHT TIME (SOLO): \_\_\_\_\_  
FLIGHT TIME (DUAL CROSS-COUNTRY): \_\_\_\_\_  
FLIGHT TIME (SOLO CROSS-COUNTRY): \_\_\_\_\_  
FLIGHT TIME (NIGHT): \_\_\_\_\_  
ATD/FTD/SIM: \_\_\_\_\_  
INSTRUMENT: \_\_\_\_\_ (In flight only.)  
GROUND/DISCUSSION: \_\_\_\_\_ (Be sure to include the Ground Lesson times.)

**COURSE TOTALS**

FLIGHT TIME (DUAL): \_\_\_\_\_  
FLIGHT TIME (SOLO): \_\_\_\_\_  
FLIGHT TIME (DUAL CROSS-COUNTRY): \_\_\_\_\_  
FLIGHT TIME (SOLO CROSS-COUNTRY): \_\_\_\_\_  
FLIGHT TIME (NIGHT): \_\_\_\_\_  
ATD/FTD/SIM: \_\_\_\_\_  
INSTRUMENT: \_\_\_\_\_ (In flight only.)  
GROUND/DISCUSSION: \_\_\_\_\_ (Be sure to include the Ground Lesson times.)

**STAGE II  
LESSON 47  
STAGE II CHECK**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		DISCUSSION: (1.5) _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____			

**LESSON OBJECTIVE:**

The student shall demonstrate the knowledge and skill of a Private Pilot in the areas listed below.

**CONTENT:**

**Lesson Review**

**ORAL**

*Preflight Preparation*

- \_\_\_\_\_ Pilot Qualifications
- \_\_\_\_\_ Airworthiness Requirements
- \_\_\_\_\_ Weather Information
- \_\_\_\_\_ National Airspace System
- \_\_\_\_\_ Performance & Limitations
- \_\_\_\_\_ Operation of Systems
- \_\_\_\_\_ Human Factors
- \_\_\_\_\_ Airport, Runway, and Taxiway Signs, Markings, & Lighting

**Lesson Review**

**FLIGHT**

*Preflight Procedures*

- \_\_\_\_\_ Preflight Inspection
- \_\_\_\_\_ Flight Deck Management
- \_\_\_\_\_ Engine Starting
- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check

*Airport Operations*

- \_\_\_\_\_ Radio Communications
- \_\_\_\_\_ Traffic Patterns
- \_\_\_\_\_ Airport, Runway, and Taxiway Signs, Markings, & Lighting

*Takeoffs, Landings, and Go-Arounds*

- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Soft-Field Approach & Landing
- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Forward Slip to a Landing
- \_\_\_\_\_ Go-Around / Rejected Landing

**Flight Continued on Next Page**

<b>Notes:</b>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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**FLIGHT (CONTINUED)**

*Navigation*

- \_\_\_\_\_ Pilotage
- \_\_\_\_\_ Diversion
- \_\_\_\_\_ Lost Procedure

*Postflight Procedures*

- \_\_\_\_\_ After Landing, Parking, & Securing

*Emergency Operation*

- \_\_\_\_\_ Emergency Descents
- \_\_\_\_\_ Emergency Approach & Landing  
(Simulated)
- \_\_\_\_\_ Systems & Equipment Malfunctions
- \_\_\_\_\_ Emergency Equipment & Survival Gear

**COMPLETION STANDARDS:**

The student will demonstrate proficiency that meets or exceeds Private Pilot proficiency as outlined in the FAA Private Pilot Airman Certification Standards.

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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## **STAGE III**

### **STAGE OBJECTIVE:**

This stage introduces additional elements of aviation that are required of a Private Pilot. The skills of navigation, cross-country operations, night operations, and flight solely by reference to the instruments shall be developed.

### **STAGE COMPLETION STANDARDS:**

At the completion of this stage, the student will demonstrate performance to a standard that meets the criteria for a Private Pilot.

**STAGE III  
LESSON 48  
DUAL - GROUND  
INSTRUMENT FLYING**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to basic attitude instrument flying and recovery from unusual flight attitudes. Emergency use of an autopilot will also be covered.

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Basic Attitude Instrument Flight
- \_\_\_\_\_ Instrument Scan and Crosscheck
- \_\_\_\_\_ Unusual Flight Attitude (Nose High) Recovery
- \_\_\_\_\_ Unusual Flight Attitude (Nose Low) Recovery

**Lesson Introduction**

- \_\_\_\_\_ Full Panel Instrument Flying
- \_\_\_\_\_ Partial Panel Instrument Flying
- \_\_\_\_\_ Emergency Autopilot Use during an Inadvertent Encounter with Instrument Conditions

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a knowledge of basic attitude instrument flying and the theory behind unusual attitude recoveries. The student will understand how an autopilot can be useful during an emergency after encountering inadvertent instrument conditions.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 3 & 4
- FAA-H-8083-25-PHAK - Chapters 6 & 8
- AIM - Chapters 1 & 6
- Vol 5: Segments 15-17

**Notes:**

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**STAGE III  
LESSON 49  
DUAL - GROUND  
CROSS-COUNTRY FLIGHT  
PLANNING EXERCISE**

DATE _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

**LESSON OBJECTIVE:**

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

**CONTENT:**

**Lesson Introduction**

\_\_\_\_\_ Cross-Country Planning Exercise

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will be able to plan a cross-country flight and determine the suitability of proceeding with the flight based upon the conditions found during the planning process.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 17
- FAA-H-8083-25-PHAK - Chapters 2 & 9-17
- Chart Supplements
- VFR Sectional
- VFR Terminal Area Chart
- FAR
- AIM - Chapters 1-9
- Vol 4: Review Segments as Needed
- Vol 5: Review Segments as Needed

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE III  
LESSON 50  
DUAL - CROSS-COUNTRY  
DAY**

	DATE _____ ACFT ID _____ GRADE (Circle One) S U I
	STUDENT NAME _____ STUDENT SIGNATURE _____
	INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
	FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____ APT IDs: _____ / _____
	DISCUSSION: (0.2) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the instructor will introduce the student to basic instrument flight maneuvers, VOR navigation, and dead reckoning during a day cross-country flight. Basic autopilot operations and disconnect procedures will be introduced (if equipped).

**CONTENT:**

**Lesson Introduction**

- \_\_\_\_\_ Basic Attitude Instrument Flight - Straight and Level
- \_\_\_\_\_ Basic Attitude Instrument Flight - Turns in Level Flight
- \_\_\_\_\_ Basic Attitude Instrument Flight - Constant Airspeed Climbs and Descents

**Lesson Introduction**

- \_\_\_\_\_ Basic Attitude Instrument Flight - Recovery from Unusual Flight Attitudes
- \_\_\_\_\_ VOR Navigation
- \_\_\_\_\_ Dead Reckoning
- \_\_\_\_\_ Autopilot Operations (if equipped)

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a basic knowledge of VOR navigation, dead reckoning procedures, and basic attitude instrument flight maneuvers. The student will have a basic understanding autopilot operations and disconnect procedures (if equipped). The student will be able to verify position within 3 nautical miles, maintain or roll out on the selected heading  $\pm 15^\circ$ , and maintain or level off at the selected appropriate altitude  $\pm 200$  feet.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 3 & 4
- FAA-H-8083-25-PHAK - Chapters 6 & 8
- Private Pilot Airman Certification Standards
- Vol 4: Segments 6 & 8
- Vol 5: Segment 15

**Notes:**

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**STAGE III  
LESSON 51  
DUAL - CROSS-COUNTRY  
DAY**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.5) _____	HOOD: (0.5) _____	APT IDs: _____ / _____	
DISCUSSION: (0.2) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____	

**LESSON OBJECTIVE:**

During this lesson, the student will be introduced to GPS navigation, ADF homing (if equipped), and operations at airports with control towers. The instructor will also review VOR navigation, dead reckoning, and pilotage procedures while performing a day cross-country. In addition, basic instrument maneuvers and autopilot operations (if equipped) will be reviewed.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ VOR Navigation
- \_\_\_\_\_ Dead Reckoning
- \_\_\_\_\_ Pilotage
- \_\_\_\_\_ Basic Instrument Maneuvers
- \_\_\_\_\_ Autopilot Operations (if equipped)

**Lesson Introduction**

- \_\_\_\_\_ Airports with Control Towers
- \_\_\_\_\_ ADF Homing (if equipped)
- \_\_\_\_\_ GPS Navigation
- \_\_\_\_\_ GPS Nearest Functions

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will be able to home to an NDB (if ADF equipped) and use VORs and GPS for navigation during a cross-country. The student will also be familiar with dead reckoning procedures, operations at airports with control towers, as well as basic instrument maneuvers. The student will have a basic understanding autopilot operations and disconnect procedures (if equipped). The student will be able to verify position within 3 nautical miles, maintain or roll out on the selected heading  $\pm 15^\circ$ , and maintain or level off at the selected appropriate altitude  $\pm 200$  feet.

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 16
- AIM - Chapters 1-5
- Private Pilot Airman Certification Standards
- Vol 4: Segments 6, 8, 9, 10, 16, 17, & 19
- Vol 5: Segments 1, 7, 15, & 16
- Vol 6: Segment 3

**Notes:**

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**STAGE III  
LESSON 52  
SOLO - CROSS-COUNTRY  
DAY**

DATE _____ ACFT ID _____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME: (2.0) _____ APT IDs: _____ / _____ TWR FLD LDGs: (3) _____
DISCUSSION: ( ) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will complete a solo cross-country day flight of 150 nautical miles, consisting of 3 legs with full stop landings at a minimum of 3 points, one leg of the flight being at least 50 nautical miles. In addition, 3 takeoffs and landings will be completed at a tower controlled airport.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ VOR Navigation
- \_\_\_\_\_ Dead Reckoning
- \_\_\_\_\_ Pilotage

**Lesson Review**

- \_\_\_\_\_ Lost Procedures
- \_\_\_\_\_ Planning for Alternates
- \_\_\_\_\_ ATC Communications

**COMPLETION STANDARDS**

The student will perform a day cross-country that is at least 150 nautical miles, consisting of 3 legs with full stop landings at a minimum of 3 points, one leg of the flight being at least 50 nautical miles. The student will have flown to a towered field and have performed 3 takeoff and landings. **Note: At least 10 solo hours, including 5 solo cross-country hours, must be completed when following this curriculum under 14 CFR part 61. Repeat this lesson as necessary to attain the applicable requirements.**

**ADDITIONAL STUDY:**

- FAA-H-8083-25-PHAK - Chapter 16
- AIM - Chapters 1-5
- Private Pilot Airman Certification Standards
- Vol 4: Review Segments as Needed
- Vol 5: Review Segments as Needed

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE III  
LESSON 53  
DUAL - GROUND  
NIGHT FLYING**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**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 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 a knowledge of basic night flying concepts.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapter 10
- FAA-H-8083-25-PHAK - Chapter 17
- FAR
- AIM - Chapters 2, 4, & 7
- Vol 4: Segments 1-2

**Notes:**

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**STAGE III  
LESSON 54  
DUAL - LOCAL  
NIGHT**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.0) _____	HOOD: (0.5) _____	NIGHT T/L's: (5) _____
DISCUSSION: (0.2) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

**LESSON OBJECTIVE:**

During this lesson, the instructor will introduce the student to night flight operations and review basic instrument flight maneuvers. The student will also perform at least 5 takeoffs and landings at night.

**CONTENT:**

**Lesson Review**

\_\_\_\_\_ Basic Instrument Maneuvers

**Lesson Introduction**

- \_\_\_\_\_ Night Flight Operations
- \_\_\_\_\_ Night Takeoffs and Landings
- \_\_\_\_\_ Go-Around / Rejected Landing at Night
- \_\_\_\_\_ Night Emergency Procedures

**COMPLETION STANDARDS:**

At the completion of this lesson, the student will have a basic knowledge of instrument flight maneuvers and night flight operations. The student will maintain or roll out on the selected heading  $\pm 15^\circ$  and maintain or level off at the selected appropriate altitude  $\pm 200$  feet.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 10 & 17
- FAA-H-8083-25-PHAK - Chapter 17
- FAR
- AIM - Chapters 2, 4, & 7
- Vol 4: Segments 1-2

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE III  
LESSON 55  
DUAL - CROSS-COUNTRY  
NIGHT**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (2.0) _____		HOOD: (0.5) _____ APT IDs: ____ / ____	
DISCUSSION: (0.2) _____		NIGHT T/L's: (5) _____	
LESSON OBJECTIVE:		TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

During this lesson, the student will review VOR and GPS Navigation, ADF homing (if equipped), dead reckoning, pilotage, basic instrument maneuvers, and autopilot operations (if equipped). The student will also perform at least 5 takeoffs and landings at night.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Night Takeoffs & Landings
- \_\_\_\_\_ VOR Navigation
- \_\_\_\_\_ ADF Homing (if equipped)
- \_\_\_\_\_ GPS Navigation
- \_\_\_\_\_ Dead Reckoning

**Lesson Review**

- \_\_\_\_\_ Pilotage
- \_\_\_\_\_ Basic Instrument Maneuvers
- \_\_\_\_\_ Night Emergency Procedures
- \_\_\_\_\_ Autopilot Operations (if equipped)

**COMPLETION STANDARDS:**

The student should be able to navigate using VORs and GPS, home to an NDB (if ADF equipped), and use dead reckoning on a night cross-country flight of at least 100 NM. The student will have a basic understanding autopilot operations and disconnect procedures (if equipped). The student shall also perform at least 5 takeoffs and landings at night. The student will be able to verify position within 3 nautical miles, maintain or roll out on the selected heading  $\pm 15^\circ$ , and maintain or level off at the selected appropriate altitude  $\pm 200$  feet. **At the end of this lesson, the student must have completed the required 3.0 hours of dual flight instruction and 10 takeoffs and landings at night. The student must also have logged at least 3.0 hours of dual cross-country flight training en route to airports greater than 50 nautical miles from the airport where the student normally trains.**

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 10 & 17
- FAA-H-8083-25-PHAK - Chapters 16 & 17
- AIM - Chapters 1-5 & 7
- Private Pilot Airman Certification Standards
- Vol 4: Review Segments as Needed
- Vol 5: Review Segments as Needed

**Notes:**

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**STAGE III  
LESSON 56  
DUAL - LOCAL**

DATE _____ ACFT ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____
DISCUSSION: (0.2) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will review flight maneuvers for the Private Pilot Practical Test.

**CONTENT:**

**Lesson Review**

\_\_\_\_\_ Private Pilot Airman Certification Standards

**COMPLETION STANDARDS:**

The student will perform all maneuvers to the Private Pilot Airman Certification Standards.

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 3, 5, 6, 7, 8, 9, & 17
- FAA-H-8083-25-PHAK - Chapters 5 & 6
- Private Pilot Airman Certification Standards

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE III  
LESSON 57  
DUAL - GROUND  
KNOWLEDGE TEST**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.2) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

The objective of this lesson is to evaluate the students comprehension of the material presented in the Private Pilot Training Course Outline ground lessons.

**CONTENT:**

**Lesson Review**

- \_\_\_\_\_ Private Pilot Knowledge Test
- \_\_\_\_\_ Pilot Qualifications
- \_\_\_\_\_ Airworthiness Requirements
- \_\_\_\_\_ Weather Information
- \_\_\_\_\_ Cross-Country Flight Planning

**Lesson Review**

- \_\_\_\_\_ National Airspace System
- \_\_\_\_\_ Performance & Limitations
- \_\_\_\_\_ Operation of Systems
- \_\_\_\_\_ Human Factors
- \_\_\_\_\_ Night Preparation

**COMPLETION STANDARDS:**

In order to complete the ground portion of the Private Pilot Training Course, the student must score at least 70% on the Private Pilot Knowledge Test.

**Notes:**

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**STAGE III  
LESSON 58  
DUAL - LOCAL**

DATE _____ ACFT ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.5) _____ HOOD: (0.5) _____
DISCUSSION: (0.2) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE:**

During this lesson, the student will review flight maneuvers for the Private Pilot Practical Test.

**CONTENT:**

**Lesson Review**

\_\_\_\_\_ Private Pilot Airman Certification Standards

**COMPLETION STANDARDS:**

The student will perform all maneuvers at the Private Pilot Airman Certification Standards. The student shall also be prepared for the Private Pilot Test. **At the end of this lesson, the student must have completed the required 3.0 hours of flight instruction on control and maneuvering of the airplane solely by reference to instruments.**

**ADDITIONAL STUDY:**

- FAA-H-8083-3-AFH - Chapters 1-10 & 17
- FAA-H-8083-25-PHAK - Chapters 1-17
- AIM - Chapters 1-9
- Private Pilot Airman Certification Standards

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**PRE-STAGE CHECK – TIME SUMMARY**

This page is intended to be used by the student's flight instructor to summarize the times accumulated through this course of instruction and determine that the times are sufficient for the stage requirements. The check instructor should verify that these times are acceptable for completion of the stage.

DATE \_\_\_\_\_ STUDENT NAME \_\_\_\_\_ STUDENT SIGNATURE \_\_\_\_\_

INSTRUCTOR # \_\_\_\_\_ INSTRUCTOR SIGNATURE \_\_\_\_\_

**STAGE TOTALS**

FLIGHT TIME (DUAL): \_\_\_\_\_

FLIGHT TIME (SOLO): \_\_\_\_\_

FLIGHT TIME (DUAL CROSS-COUNTRY): \_\_\_\_\_

FLIGHT TIME (SOLO CROSS-COUNTRY): \_\_\_\_\_

FLIGHT TIME (NIGHT): \_\_\_\_\_

ATD/FTD/SIM: \_\_\_\_\_

INSTRUMENT: \_\_\_\_\_ (In flight only.)

GROUND/DISCUSSION: \_\_\_\_\_ (Be sure to include the Ground Lesson times.)

**COURSE TOTALS**

FLIGHT TIME (DUAL): \_\_\_\_\_

FLIGHT TIME (SOLO): \_\_\_\_\_

FLIGHT TIME (DUAL CROSS-COUNTRY): \_\_\_\_\_

FLIGHT TIME (SOLO CROSS-COUNTRY): \_\_\_\_\_

FLIGHT TIME (NIGHT): \_\_\_\_\_

ATD/FTD/SIM: \_\_\_\_\_

INSTRUMENT: \_\_\_\_\_ (In flight only.)

GROUND/DISCUSSION: \_\_\_\_\_ (Be sure to include the Ground Lesson times.)

**STAGE III  
LESSON 59  
STAGE III CHECK**

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____	
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.2) _____		HOOD: (0.3) _____
DISCUSSION: (1.5) _____		TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

**LESSON OBJECTIVE:**

The student shall demonstrate the knowledge and skill of a Private Pilot.

**CONTENT:**

**Lesson Review**

*Preflight Preparation*

- \_\_\_\_\_ Pilot Qualifications
- \_\_\_\_\_ Airworthiness Requirements
- \_\_\_\_\_ Weather Information
- \_\_\_\_\_ Cross-Country Flight Planning
- \_\_\_\_\_ National Airspace System
- \_\_\_\_\_ Performance & Limitations
- \_\_\_\_\_ Operation of Systems
- \_\_\_\_\_ Human Factors

*Night Operations*

- \_\_\_\_\_ Night Preparation

*Preflight Procedures*

- \_\_\_\_\_ Preflight Inspection
- \_\_\_\_\_ Flight Deck Management
- \_\_\_\_\_ Engine Starting
- \_\_\_\_\_ Taxiing
- \_\_\_\_\_ Before Takeoff Check

*Airport Operations*

- \_\_\_\_\_ Communications & Light Signals
- \_\_\_\_\_ Traffic Patterns

**Lesson Review**

*Takeoffs, Landings & Go-Arounds*

- \_\_\_\_\_ Normal Takeoff & Climb
- \_\_\_\_\_ Normal Approach & Landing
- \_\_\_\_\_ Soft-Field Takeoff & Climb
- \_\_\_\_\_ Soft-Field Approach & Landing
- \_\_\_\_\_ Short-Field Takeoff & Maximum Performance Climb
- \_\_\_\_\_ Short-Field Approach & Landing
- \_\_\_\_\_ Forward Slip to a Landing
- \_\_\_\_\_ Go-Around / Rejected Landing

*Performance & Ground Reference Maneuvers*

- \_\_\_\_\_ Steep Turns
- \_\_\_\_\_ Rectangular Course
- \_\_\_\_\_ S-Turns
- \_\_\_\_\_ Turns around a Point

*Slow Flight & Stalls*

- \_\_\_\_\_ Maneuvering during Slow Flight
- \_\_\_\_\_ Power-Off Stalls
- \_\_\_\_\_ Power-On Stalls
- \_\_\_\_\_ Spin Awareness

**Continued On Next Page**

<p><b>Notes:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**Lesson Review**

*Basic Instrument Maneuvers*

- \_\_\_\_\_ Straight & Level Flight
- \_\_\_\_\_ Constant Airspeed Climbs
- \_\_\_\_\_ Constant Airspeed Descents
- \_\_\_\_\_ Turns to Headings
- \_\_\_\_\_ Recovery from Unusual Flight Attitudes
- \_\_\_\_\_ Radio Communications, Navigation Systems/Facilities, & Radar Services

*Navigation*

- \_\_\_\_\_ Pilotage & Dead Reckoning
- \_\_\_\_\_ Navigation Systems & Radar Services
- \_\_\_\_\_ Diversion
- \_\_\_\_\_ Lost Procedures

**Lesson Review**

*Emergency Operations*

- \_\_\_\_\_ Emergency Descents
- \_\_\_\_\_ Emergency Approach & Landing
- \_\_\_\_\_ Systems & Equipment Malfunctions
- \_\_\_\_\_ Emergency Equipment & Survival Gear

*Postflight Procedures*

- \_\_\_\_\_ After Landing, Parking, & Securing

**COMPLETION STANDARDS:**

The stage check will be completed when the student performs all required maneuvers and tasks to the Private Pilot Airman Certification Standards. Also, the instructor and student will review the 14 CFR part 61 or part 141 requirements, as applicable, for the Private Pilot Certificate and determine that the student has met all of them. After the review of the 14 CFR part 61/141 requirements is complete, the Private Pilot flight check should be scheduled.

**Notes:**

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# RECORD OF EXTRA TRAINING

DATE \_\_\_\_\_ ACFT ID \_\_\_\_\_ GRADE (Circle One) S U I  
 STUDENT NAME \_\_\_\_\_ STUDENT SIGNATURE \_\_\_\_\_  
 INSTRUCTOR # \_\_\_\_\_ INSTRUCTOR SIGNATURE \_\_\_\_\_  
 FLIGHT TIME: \_\_\_\_\_ DISCUSSION: \_\_\_\_\_  
 TOTAL IN COURSE: (D/S/G) \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**CONTENT:**

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# RECORD OF EXTRA TRAINING

DATE \_\_\_\_\_ ACFT ID \_\_\_\_\_ GRADE (Circle One) S U I  
STUDENT NAME \_\_\_\_\_ STUDENT SIGNATURE \_\_\_\_\_  
INSTRUCTOR # \_\_\_\_\_ INSTRUCTOR SIGNATURE \_\_\_\_\_  
FLIGHT TIME: \_\_\_\_\_ DISCUSSION: \_\_\_\_\_  
TOTAL IN COURSE: (D/S/G) \_\_\_\_ / \_\_\_\_ / \_\_\_\_

## CONTENT:

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# RECORD OF EXTRA TRAINING

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____	
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: _____	DISCUSSION: _____	
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____		

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# RECORD OF EXTRA TRAINING

DATE _____ ACFT ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: _____ DISCUSSION: _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

### CONTENT:

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# RECORD OF EXTRA TRAINING

DATE _____ ACFT ID _____ GRADE (Circle One) S U I		
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: _____ DISCUSSION: _____		
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____		

**CONTENT:**

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# RECORD OF EXTRA TRAINING

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____	
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: _____	DISCUSSION: _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____		

## CONTENT:

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# RECORD OF EXTRA TRAINING

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____	
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: _____	DISCUSSION: _____	
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____		

**CONTENT:**

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# RECORD OF EXTRA TRAINING

DATE _____	ACFT ID _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____	
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: _____		DISCUSSION: _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____		

## CONTENT:

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# RECORD OF EXTRA TRAINING

DATE _____	ACFT ID _____	GRADE (Circle One)	S	U	I
STUDENT NAME _____		STUDENT SIGNATURE _____			
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____			
FLIGHT TIME: _____		DISCUSSION: _____			
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____					

**CONTENT:**

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