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 DVDs 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 Flight Training course for the Private Pilot on DVD. It is important that the student view all six volumes in the Private Pilot course. For each lesson, there is required study of specific DVD 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 DVDs, the student should also review the required 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.
## 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.

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

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S = SATISFACTORY</td>
<td>The content of the lesson has been completed to the standards outlined in the individual lesson Completion Standards.</td>
</tr>
<tr>
<td>U = UNSATISFACTORY</td>
<td>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.</td>
</tr>
<tr>
<td>I = INCOMPLETE</td>
<td>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”.</td>
</tr>
</tbody>
</table>
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.
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

<table>
<thead>
<tr>
<th>STAGE</th>
<th>LESSON</th>
<th>FLIGHT TIME</th>
<th>GROUND TIME</th>
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</tbody>
</table>

Note: The table continues with similar entries for stages IV and V with corresponding flight times and ground times.
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 and 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.

REQUIRED STUDY:

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

Notes:
STAGE I  
LESSON 2  
DUAL - LOCAL

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
Cockpit 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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 1: Segments 12-22

Notes:
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 incursions, 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 Incursions
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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
FAR - 14 CFR Aviation Regulations
AIM - Aeronautical Information Manual
Vol 1: Segments 3-20
Vol 3: Segment 15
Vol 7: Segment 5
### Stage I
### Lesson 4
### Dual - Ground
### Aerodynamics

<table>
<thead>
<tr>
<th>Notes:</th>
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</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Lesson Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Forces of Flight</td>
</tr>
<tr>
<td>Airframe Construction (Components)</td>
</tr>
<tr>
<td>Three Axes of Flight</td>
</tr>
<tr>
<td>Forces Acting on a Climbing Airplane</td>
</tr>
<tr>
<td>Angle of Attack</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lesson Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forces Acting on a Descending Airplane</td>
</tr>
<tr>
<td>Forces Acting on a Turning Airplane</td>
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<tr>
<td>Effects of Flaps</td>
</tr>
<tr>
<td>Critical Angle of Attack / Stalls</td>
</tr>
<tr>
<td>Spin Awareness</td>
</tr>
</tbody>
</table>

**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.

**Required Study:**

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Vol 1: Segments 21-27
- Vol 2: Segments 5-6
STAGE I
LESSON 5
DUAL - LOCAL

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
______ Cockpit Management

Lesson Introduction

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

COMPLETION STANDARDS:

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

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 1: Segments 19-27
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.

REQUIRED STUDY:

FAA-H-8083-25-PHAK
Vol 3: Segment 18
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  
- Cockpit 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 ±150 feet, heading ±20°, and airspeeds ±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 an immediate stall 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.

**REQUIRED STUDY:**

FAA-H-8083-3-AFH  
FAA-H-8083-25-PHAK  
Private Pilot Practical Test Standards  
Vol 1: Segments 24-26  
Vol 2: Segments 1-7
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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Vol 3: Segments 14-18
Vol 6: Segment 5
Vol 7: Segment 6

Notes:

_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Training Course Outline
STAGE I
LESSON 9
DUAL - LOCAL

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 ±15° and the required airspeed ±10 knots during the constant airspeed climbs and descents.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 1: Review Segments as Needed
Vol 2: Segments 7-10
Vol 3: Segment 3

Notes:
STAGE I
LESSON 10
DUAL - GROUND WEATHER

LESSON OBJECTIVE:

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

CONTENT:

Lesson Introduction

The Atmosphere
Pressure
Wind
Moisture
Humidity
Stability

Lesson Introduction

Clouds
Air Masses
Fronts
Frontal Weather
Thunderstorms
Other Hazardous Weather Conditions

COMPLETION STANDARDS:

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

REQUIRED STUDY:

AC 00-6-AvWx - Aviation Weather
AC 00-45-AvWxSvc - Aviation Weather Services
FAA-H-8083-25-PHAK
Vol 3: Segments 7-8
Vol 5: Segment 11
Vol 6: Segment 10
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 an immediate stall and will be maintained +20, -0 knots. Stalls will be performed in both straight and level and turning flight.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 1: Segment 25; Review Segments as Needed
Vol 2: Segments 1-11

Notes:
STAGE I
LESSON 12
DUAL - GROUND
WEATHER REPORTS & FORECASTS

<table>
<thead>
<tr>
<th>DATE_________</th>
<th>GRADE (Circle One) S U I</th>
</tr>
</thead>
<tbody>
<tr>
<td>STUDENT NAME</td>
<td>STUDENT SIGNATURE_________</td>
</tr>
<tr>
<td>INSTRUCTOR #</td>
<td>INSTRUCTOR SIGNATURE______</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Lesson Introduction</th>
<th>Lesson Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Analysis Charts</td>
<td>Winds and Temperatures Aloft</td>
</tr>
<tr>
<td>Weather Depiction Charts</td>
<td>Pilot Reports</td>
</tr>
<tr>
<td>Low-Level Prognostic Charts</td>
<td>Obtaining a Weather Briefing FSS / DUAT</td>
</tr>
<tr>
<td>Area Forecasts</td>
<td>Standard / Abbreviated / Outlook Briefings</td>
</tr>
<tr>
<td>TAFs</td>
<td>AWOS / ASOS / AWSS Reports</td>
</tr>
<tr>
<td>METARs</td>
<td></td>
</tr>
</tbody>
</table>

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.

REQUIRED STUDY:

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

Lesson Introduction

_____ Normal Takeoffs & Landings

_____ 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 ±10 knots and altitude ±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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 2: Segment 1; Review Segments as Needed
Vol 3: Segments 1-2
STAGE I
LESSON 14
DUAL - GROUND
WEATHER REPORTS & FORECASTS

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 relative weather data.

REQUIRED STUDY:

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

Notes:
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

Lesson Review

_____ Power-On & Power-Off Stalls
_____ Steep Turns
_____ Normal Takeoffs & Landings

COMPLETION STANDARDS:

The student will be able to fly specific ground tracks while maintaining airspeed ±10 knots and altitude ±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 an immediate stall 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° of bank ±5°, while maintaining altitude ±200 feet and with the roll out on the assigned heading ±15°. Airspeed will be maintained at V_{SY} +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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 2: Review Segments as Needed
Vol 3: Segments 13-20; Review Segments as Needed
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.

REQUIRED STUDY:

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

_____ Normal Takeoff & Climb
_____ Normal Approach & Landing

Lesson Introduction

_____ Wake Turbulence Avoidance
_____ Systems & Equipment Malfunctions
_____ Rejected Takeoffs
_____ Go-Around from a 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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 2: Segments 11-13
Vol 3: Segments 4-6; 13
STAGE I
LESSON 18
DUAL - GROUND
FAR / AIM
NTSB 830 / PTS
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 proper decision-making, FARs, NTSB 830, the use of the AIM, pilot and aircraft logbooks, and other publications.

CONTENT:

Lesson Introduction

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

Lesson Introduction

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

COMPLETION STANDARDS:

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

REQUIRED STUDY:

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

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 from a Rejected Landing
- Traffic Pattern Operations
- Wind Effect on Ground Track

Lesson Introduction

- 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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 2: Segment 13
Vol 3: Segments 1-6

Notes:

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
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Private Pilot
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.

REQUIRED STUDY:

AFM/POH
Vol 1: Segment 10
Vol 3: Segment 22

Notes:

________________________________________
________________________________________
________________________________________
________________________________________
________________________________________
________________________________________

Training Course Outline
STAGE I
LESSON 21
DUAL - LOCAL

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

- 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 an immediate stall 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.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Pilot Practical Test Standards
  Vol 1: Review Segments as Needed
  Vol 2: Review Segments as Needed
  Vol 3: Segments 7-12
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.

Required Study:

AFM/POH
FAR
AIM
Vol 1: Segments 8-9
Vol 2: Segments 3-4
STAGE I
LESSON 23
DUAL - LOCAL

DATE___________ ACFT ID_________ GRADE (Circle One)  S  U  I
STUDENT NAME _______________ STUDENT SIGNATURE_______________
INSTRUCTOR # _______________ INSTRUCTOR SIGNATURE_____________

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

Crosswind Takeoff & Climb
Normal Takeoff & Climb
Traffic Pattern Operations
Engine Starting
Radio Communications
Taxiing
Before Takeoff Check
Normal Approach & Landing

Lesson Review

Side Slip to a Landing
Crosswind Approach & Landing
Forward Slip to a Landing
No Flap Landing
Go-Around from a 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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 1: Review Segments as Needed
Vol 2: Review Segments as Needed
Vol 3: Segment 21; Review Segments as Needed

Notes:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
STAGE I
LESSON 24
DUAL - GROUND
AIRCRAFT SYSTEMS
MAINTENANCE

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.

REQUIRED STUDY:

AFM/POH
Vol 3: Segment 13
Vol 6: Segment 3
Stage I
Lesson 25
DUAL - LOCAL

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:

<table>
<thead>
<tr>
<th>Lesson Review</th>
<th>Lesson Review</th>
</tr>
</thead>
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<td>Engine Starting</td>
<td>Straight and Level Flight</td>
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<td>Normal and/or Crosswind Takeoff &amp; Climb</td>
<td>Steep Turns</td>
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<tr>
<td>Traffic Pattern Operations</td>
<td>Systems and Equipment Malfunctions</td>
</tr>
<tr>
<td>Side Slip to a Landing</td>
<td>Normal and/or Crosswind Approach &amp; Landing</td>
</tr>
<tr>
<td>Forward Slip to a Landing</td>
<td>Power-Off Stalls</td>
</tr>
<tr>
<td>Go-Around from a Rejected Landing</td>
<td>Power-On Stalls</td>
</tr>
<tr>
<td>Emergency Approach &amp; Landing</td>
<td>Practice Area Operations</td>
</tr>
<tr>
<td>Maneuvering during Slow Flight</td>
<td></td>
</tr>
</tbody>
</table>

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 ±150 feet, maintain or roll out on headings ±15°, and maintain airspeed ±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 an immediate stall 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° of bank ±5°, while maintaining altitude ±150 feet and with the roll out on the assigned heading ±10°. Airspeed will be maintained at \( V_s +10, -5 \) 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.

Required Study:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Practical Test Standards
- Vol 1: Review Segments as Needed
- Vol 2: Review Segments as Needed
- Vol 3: Segments 22-24; Review Segments as Needed

Notes:
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

Lesson Introduction

_____ Class D
_____ Class E
_____ Class G
_____ Special Use Airspace
_____ 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.

REQUIRED STUDY:

FAR
AIM
Vol 5: Segment 17

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): ________
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
Taxing

FLIGHT (CONTINUED)

Before Takeoff Check
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 from a Rejected Landing
Systems & Equipment Malfunctions
Practice Area Operations
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 ±150 feet, maintain or roll out on headings ±15°, and maintain airspeeds ±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 an immediate stall 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:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Training Course Outline
STAGE I
LESSON 28
DUAL - GROUND
CHARTS & PUBLICATIONS

LESSON OBJECTIVE:

During this lesson, the student will be introduced to VFR sectional charts and the Airport / Facility Directory.

CONTENT:

Lesson Introduction

_____ VFR Sectional Charts
_____ Airport / Facility Directory
_____ Planning for Alternatives

COMPLETION STANDARDS:

At the completion of this lesson, the student will have a knowledge of VFR sectional charts and the Airport / Facility Directory.

REQUIRED STUDY:

VFR Sectional
A/FD - Airport / Facility Directory
Vol 5: Segment 3
### 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

- Crosswind Takeoff & Climb
- Normal Takeoff & Climb
- Traffic Pattern Operations
- Normal Approach & Landing

- Crosswind Approach & Landing
- Go-Around from a 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.

### REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Practical Test Standards
  - Vol 2: Review Segments as Needed
  - Vol 3: Review Segments as Needed

---

**Notes:**

---

**DISCUSSION: (1.2) ________**

**TOTAL IN COURSE: (D/S/G) _______ / _______ / _______**
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 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 factors and how they relate to flying activities.

REQUIRED STUDY:

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

Notes:

_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
LESSON OBJECTIVE:

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

CONTENT:

<table>
<thead>
<tr>
<th>Lesson Review</th>
<th>Lesson Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>______ Taxing</td>
<td>______ Go-Around from a Rejected Landing</td>
</tr>
<tr>
<td>______ Before Takeoff Check</td>
<td>______ Normal and/or Crosswind Approach &amp; Landing</td>
</tr>
<tr>
<td>______ Normal and/or Crosswind Takeoff &amp; Climb</td>
<td>______ Emergency Approach &amp; Landing</td>
</tr>
<tr>
<td>______ Traffic Pattern Operations</td>
<td></td>
</tr>
<tr>
<td>______ Systems and Equipment Malfunctions</td>
<td></td>
</tr>
</tbody>
</table>

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.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- Private Pilot Practical Test Standards
- Vols 1-3: Review Segments as Needed
STAGE I
LESSON 32
DUAL AND SOLO - LOCAL

<table>
<thead>
<tr>
<th>Date</th>
<th>ACFT ID</th>
<th>Grade (Circle One)</th>
<th>Student Name</th>
<th>Student Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>S U I</td>
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</tr>
</tbody>
</table>

Instructor # | Instructor Signature

Total in Course: (D/S/G) / /

FLIGHT TIME DUAL: (1.0) Solo: (0.6)

Discussion: (0.2)

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 Concerning Solo Requirements
- Traffic Pattern Operations
- Normal Takeoffs and Landings

Supervised Solo

- Radio Communications
- Taxiing
- Before Takeoff Check
- 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.

Required Study:

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

Notes:
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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Vol 6: Segment 3
STAGE II
LESSON 34
DUAL - LOCAL

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

Short-Field Takeoff & 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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 6: Segments 5-8
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
_____ Airport / Facility Directory

Lesson Introduction

_____ VFR Terminal Area Chart
_____ Plotter
_____ Flight Computer
_____ Cockpit 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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
VFR Sectional Chart
VFR Terminal Area Chart
FAR
AIM
A/FD
Vol 5: Segments 3-5; 16
Stage II
Lesson 36
Dual - Local

<table>
<thead>
<tr>
<th>Date</th>
<th>Acft ID</th>
<th>Grade (Circle One)</th>
<th>S</th>
<th>U</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Name</td>
<td>Student Signature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instructor #</td>
<td>Instructor Signature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Lesson Review</th>
<th>Lesson Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger Briefing</td>
<td>Short-Field Takeoff &amp; Climb</td>
</tr>
<tr>
<td>Maneuvering during Slow Flight</td>
<td>Soft-Field Takeoff &amp; Climb</td>
</tr>
<tr>
<td>Power-Off Stalls (Full)</td>
<td>Short-Field Approach &amp; Landing</td>
</tr>
<tr>
<td>Power-On Stalls (Full)</td>
<td>Soft-Field Approach &amp; Landing</td>
</tr>
<tr>
<td>Forward Slip to a Landing</td>
<td></td>
</tr>
</tbody>
</table>

**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 an immediate stall 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.

**Required Study:**

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Segments 3-10
Stage II
Lesson 37
Dual - Ground
Cross-Country
Flight Planning

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.

Required Study:
FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
FAR
AIM
Vol 5: Segments 5-6
Vol 6: Segment 5
STAGE II
LESSON 38
SOLO - LOCAL

<table>
<thead>
<tr>
<th>Date</th>
<th>ACFT ID</th>
<th>Grade (Circle One)</th>
<th>SP</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Name</td>
<td>Student Signature</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Lesson Review</th>
<th>Lesson Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>_____ Normal and/or Crosswind Takeoff &amp; Climb</td>
<td>_____ Power-Off Stalls</td>
</tr>
<tr>
<td>_____ Short-Field Takeoff &amp; Climb</td>
<td>_____ Power-On Stalls</td>
</tr>
<tr>
<td>_____ Soft-Field Takeoff &amp; Climb</td>
<td>_____ Forward Slip to Landing</td>
</tr>
<tr>
<td>_____ Rectangular Course</td>
<td>_____ Normal and/or Crosswind Approach &amp; Landing</td>
</tr>
<tr>
<td>_____ S-Turns</td>
<td>_____ Short-Field Approach &amp; Landing</td>
</tr>
<tr>
<td>_____ Turns around a Point</td>
<td>_____ Soft-Field Approach &amp; Landing</td>
</tr>
<tr>
<td>_____ Steep Turns</td>
<td>_____ Other (As Assigned by Instructor)</td>
</tr>
<tr>
<td>_____ Maneuvering during Slow Flight</td>
<td></td>
</tr>
</tbody>
</table>

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.

REQUIRED STUDY:
FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Segments 11-19

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

<table>
<thead>
<tr>
<th>DATE ___________</th>
<th>GRADE (Circle One) S U I</th>
</tr>
</thead>
<tbody>
<tr>
<td>STUDENT NAME ________</td>
<td>STUDENT SIGNATURE__________</td>
</tr>
<tr>
<td>INSTRUCTOR # ________</td>
<td>INSTRUCTOR SIGNATURE__________</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Lesson Introduction</th>
<th>Lesson Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Calculating Various Airspeeds</td>
<td></td>
</tr>
</tbody>
</table>

**COMPLETION STANDARDS:**

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

**REQUIRED STUDY:**

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR
- AIM
- Vol 5: Segment 16

**Notes:**

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
STAGE II
LESSON 40
DUAL - PILOTAGE

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
_____ 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 & Flight Watch
_____ 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 ±15°, and maintain altitude ±200 feet of the selected appropriate altitude. The student will also demonstrate appropriate radio communication procedures at non-towered airports and with Flight Service.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 6: Segments 1-4

Notes:

_________________________________________________________

_________________________________________________________

_________________________________________________________

_________________________________________________________
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.

REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- FAR
- AIM
- Vol 5: Segment 6
- Vol 6: Segment 18
STAGE II
LESSON 42
DUAL - PILOTAGE

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

_____ 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 ±15°, and maintain the selected appropriate altitude ±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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Review Segments as Needed
Vol 6: Segments 9-18; Review Segments 1-8 as Needed

Notes:
LESSON OBJECTIVE:

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

CONTENT:

Lesson Introduction

<table>
<thead>
<tr>
<th>Class A</th>
<th>Class B</th>
<th>Class C</th>
<th>Class D</th>
<th>Class E</th>
<th>Class G</th>
<th>TRSA Communications</th>
<th>FSS Communications</th>
<th>Approach Control</th>
<th>Departure Control</th>
<th>Clearance Delivery</th>
</tr>
</thead>
</table>

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, Position and Hold, 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.

REQUIRED STUDY:

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

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Review Segments as Needed
Vol 6: 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.

CONTENT:

Lesson Introduction

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

Lesson Introduction

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

COMPLETION STANDARDS:

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

REQUIRED STUDY:

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

Notes:

________________________________________
________________________________________
________________________________________
________________________________________
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---------------------------------------------
STAGE II
LESSON 46
DUAL - LOCAL

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 & Climb
- Soft-Field Takeoff & Climb
- Pilotage
- Diversion
- Lost Procedure
- System & Equipment Malfunctions

Lesson Review

- 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 Practical Test Standards.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Review Segments as Needed
Vol 6: 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.

<table>
<thead>
<tr>
<th>DATE</th>
<th>STUDENT NAME</th>
<th>STUDENT SIGNATURE</th>
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<th>INSTRUCTOR SIGNATURE</th>
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</table>

### STAGE TOTALS

- **FLIGHT TIME (DUAL):** ______
- **FLIGHT TIME (SOLO):** ______
- **FLIGHT TIME (DUAL CROSS-COUNTRY):** ______
- **FLIGHT TIME (SOLO CROSS-COUNTRY):** ______
- **FLIGHT TIME (NIGHT):** ______
- **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):** ______
- **FTD/SIM:** ______
- **INSTRUMENT:** ______ (In flight only.)
- **GROUND/DISCUSSION:** ______ (Be sure to include the Ground Lesson times.)
### STAGE II
#### LESSON 47
#### STAGE II CHECK

<table>
<thead>
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</table>
| 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
      - Certificates & Documents
      - Airworthiness Requirements
      - Weather Information
      - National Airspace System
      - Performance & Limitations
      - Operation of Systems
      - Aeromedical Factors
      - Airport, Runway, and Taxiway Signs, Markings, & Lighting
    - **FLIGHT**
      - Preflight Procedures
        - Preflight Inspection
        - Cockpit 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 & Crosswind Takeoff & Climb
        - Normal & Crosswind 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**

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**Notes:**

________________________________________________________________________

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FLIGHT (CONTINUED)

Navigation

- Pilotage
- Diversion
- Lost Procedure

Emergency Operation

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

Postflight Procedures

- After Landing, Parking, & Securing

COMPLETION STANDARDS:

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

Notes: 

________________________________________________________________________

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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

LESSON OBJECTIVE:

During this lesson, the student will be introduced to basic attitude instrument flying and recovery from unusual flight attitudes.

CONTENT:

Lesson Introduction

Basic Attitude Instrument Flight
Instrument Scan and Crosscheck
Unusual Flight Attitude (Nose High) Recovery

Lesson Introduction

Unusual Flight Attitude (Nose Low) Recovery
Full Panel Instrument Flying
Partial Panel Instrument Flying

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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Vol 6: Segments 14-17
## STAGE III
### LESSON 49
#### DUAL - GROUND
##### CROSS-COUNTRY FLIGHT PLANNING EXERCISE

<table>
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**STUDENT NAME:** _____________  **STUDENT SIGNATURE:** _______________

**INSTRUCTOR #:** _____________  **INSTRUCTOR SIGNATURE:** _______________

**DISCUSSION:** (1.2) ________

**TOTAL IN COURSE:** (D/S/G) _______ / _______ / _______

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### 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.

### REQUIRED STUDY:

- FAA-H-8083-3-AFH
- FAA-H-8083-25-PHAK
- A/FD
- VFR Sectional
- VFR Terminal Area Chart
- FAR
- AIM
- Vol 5: Review Segments as Needed
- Vol 6: Review Segments as Needed

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**Notes:**

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LESSON 50
DUAL - CROSS-COUNTRY
DAY

STAGE III

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.

CONTENT:

Lesson Introduction

Basic Attitude Instrument Flight - Straight and Level
Basic Attitude Instrument Flight - Constant Airspeed Climbs and Descents

Lesson Introduction

Basic Attitude Instrument Flight - Recovery from Unusual Flight Attitudes
VOR Navigation
Dead Reckoning

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 be able to verify position within 3 nautical miles, maintain or roll out on the selected heading ±15°, and maintain or level off at the selected appropriate altitude ±200 feet.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Segment 7
Vol 6: Segment 14
STAGE III
LESSON 51
DUAL - CROSS-COUNTRY
DAY

LESSON OBJECTIVE:

During this lesson, the student will be introduced to GPS navigation, ADF homing, 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 will be reviewed.

CONTENT:

Lesson Review

- VOR Navigation
- Dead Reckoning
- Pilotage
- Basic Instrument Maneuvers

Lesson Introduction

- Airports with Control Towers
- ADF Homing
- GPS Navigation
- GPS Nearest Functions

COMPLETION STANDARDS:

At the completion of this lesson the student will be able to home to an NDB 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 be able to verify position within 3 nautical miles, maintain or roll out on the selected heading ±15°, and maintain or level off at the selected appropriate altitude ±200 feet.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Segment 9
Vol 6: Segment 1
STAGE III
LEsson 52
Solo - Cross-Country
Day

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 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.

REQUiRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAk
Private Pilot Practical Test Standards
Vol 5: Review Segments as Needed
Vol 6: Review Segments as Needed

Notes:

_________________________________________________________________

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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.

REQUIRED STUDY:

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

Notes:

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______________________________________________________________________________
Stage III
Lesson 54
DUAL - LOCAL
NIGHT

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 from a 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 ±15° and maintain or level off at the selected appropriate altitude ±200 feet.

Required Study:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 6: Review Segments as Needed
STAGE III
LESSON 55
DUAL - CROSS-COUNTRY
NIGHT

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

CONTENT:

Lesson Review

_____ Night Takeoffs & Landings
_____ VOR Navigation
_____ ADF Homing
_____ GPS Navigation

Lesson Review

_____ Dead Reckoning
_____ Pilotage
_____ Basic Instrument Maneuvers
_____ Night Emergency Procedures

COMPLETION STANDARDS:

The student should be able to navigate using VORs and GPS, home to an NDB, and use dead reckoning on a night cross-country flight of at least 100 NM. 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 ±15°, and maintain or level off at the selected appropriate altitude ±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.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 5: Segment 1-2
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 Practical Test Standards

COMPLETION STANDARDS:

The student will perform all maneuvers to the Private Pilot Practical Test Standards.

REQUIRED STUDY:

FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 7: Segments 1-7
**STAGE III**  
**LESSON 57**  
**DUAL - GROUND**  
**KNOWLEDGE TEST**

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**LESSON OBJECTIVE:**

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

**CONTENT:**

<table>
<thead>
<tr>
<th>Lesson Review</th>
<th>Lesson Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Pilot Knowledge Test</td>
<td>National Airspace System</td>
</tr>
<tr>
<td>Certificates &amp; Documents</td>
<td>Performance &amp; Limitations</td>
</tr>
<tr>
<td>Airworthiness Requirements</td>
<td>Operation of Systems</td>
</tr>
<tr>
<td>Weather Information</td>
<td>Aeromedical Factors</td>
</tr>
<tr>
<td>Cross-Country Flight Planning</td>
<td>Night Preparation</td>
</tr>
</tbody>
</table>

**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.
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 Practical Test Standards

COMPLETION STANDARDS:
The student will perform all maneuvers at the Private Pilot Practical Test 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 instrument flight instruction.

REQUIRED STUDY:
FAA-H-8083-3-AFH
FAA-H-8083-25-PHAK
Private Pilot Practical Test Standards
Vol 7: Segments 8-15

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): ________
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): ________
FTD/SIM: ________
INSTRUMENT: ________ (In flight only.)
GROUND/DISCUSSION: ________ (Be sure to include the Ground Lesson times.)
### Stage III Lesson 59

**Stage III Check**

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<th>Instructor #</th>
<th>Instructor Signature</th>
<th>Flight Time</th>
<th>Hood</th>
<th>Discussion</th>
<th>Total in Course</th>
</tr>
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</table>

#### Lesson Objective:

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

#### Content:

**Lesson Review**

- Preflight Preparation
  - Certificates & Documents
  - Airworthiness Requirements
  - Weather Information
  - Cross-Country Flight Planning
  - National Airspace System
  - Performance & Limitations
  - Operation of Systems
  - Aeromedical Factors

- Night Operations
  - Night Preparation

- Preflight Procedures
  - Preflight Inspection
  - Cockpit Management
  - Engine Starting
  - Taxiing
  - Before Takeoff Check

- Airport Operations
  - Radio Communications & ATC Light Signals
  - Traffic Patterns
  - Airport, Runway, and Taxiway Signs, Markings, & Lighting

**Takeoffs, Landings & Go-Arounds**

- Normal & Crosswind Takeoff & Climb
- Normal & Crosswind Approach & Landing
- Soft-Field Takeoff & Climb
- Soft-Field Approach & Landing
- Short-Field Takeoff & Max Performance Climb
- Short-Field Approach & Landing
- Forward Slip to a Landing
- Go-Around from a Rejected Landing

**Performance Maneuver**

- Steep Turns

**Ground Reference Maneuvers**

- Rectangular Course
- S-Turns
- Turns around a Point

**Slow Flight & Stalls**

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

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**Notes:**

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Page 66
Private Pilot
**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

**Emergency Operations**
- Emergency Approach & Landing
- Systems & Equipment Malfunctions
- Emergency Equipment & Survival Gear

**Postflight Procedures**
- After Landing, Parking, & Securing

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**COMPLETION STANDARDS:**

The stage check will be completed when the student performs all required maneuvers and tasks to the Private Pilot Practical Test 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.
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

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**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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TOTAL IN COURSE: (D/S/G) __/__/__

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**STUDENT SIGNATURE**: ___________

**INSTRUCTOR #:** ___________

**INSTRUCTOR SIGNATURE**: ___________

**FLIGHT TIME**: ________

**DISCUSSION**: ___________

**TOTAL IN COURSE**: (D/S/G) _____ / _____ / _____

**CONTENT:**

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