

**COMMERCIAL PILOT CERTIFICATE  
TRAINING COURSE OUTLINE AND SYLLABUS  
OVERVIEW**

**APPLICABILITY**

This Training Course Outline prescribes the minimum curriculum required for a commercial pilot certification course under Title 14 Part 141, Appendix D for an Airplane Single-Engine Land rating.

**COURSE OBJECTIVE**

The student will obtain the knowledge, skill, and aeronautical experience necessary to meet the requirements for a Commercial Pilot Certificate in an Airplane Single-Engine Land.

**COURSE COMPLETION STANDARDS**

The student will demonstrate through written, computerized, oral, and flight tests, and show through appropriate records, that the knowledge, skill, and experience requirements necessary to obtain a Commercial Pilot Certificate in an Airplane Single-Engine Land are met.

**TRAINING SYLLABUS**

The training syllabus meets all curriculum requirements as prescribed by FAR Part 141, Appendix D. It is composed of integrated ground and flight lessons to allow greater flexibility and to accommodate individual needs. The ground lessons may be taught either separately or concurrently with the flight lessons.

**COURSE TIMEFRAME**

The Training Course contains four (4) stages. Each stage is designed to be completed in no more than ninety (90) days. Additionally, this course is designed to meet the 3 hours of dual flight training in an aircraft that is appropriate to the aircraft category and class for which the course applies, in preparation for the practical test within 60 days preceding the date of the test.

Sporty's Academy is located at Clermont County/Sporty's Airport (I69) and holds Air Agency Certificate **No. XSTS103K**.

Sporty's Academy is owned and operated as:

SPORTY'S ACADEMY, INC.  
2001 SPORTY'S DRIVE  
CLERMONT COUNTY/SPORTY'S AIRPORT  
BATAVIA, OHIO 45103

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**DESCRIPTION OF REVISIONS**

REVISION #	REVISION DATE	REVISION DESCRIPTION	SECTION(S)	PAGE NUMBERS
Original	07-03-1998	Initial Course Offering	ALL	ALL
1	06-01-2000	Personnel & Table of Contents	INTRO, IV	2, 1 & 2
2	10-20-2000	Chief & Asst. Chief	IV	1
3	11-01-2001	Chief & Asst. Chief	IV	1 & 2
4	01-31-2003	Chief Instructor, Lesson Content (PTS), Updated Diagrams	ALL	ALL
5	06-15-2003	Update Format, Correct Typos	ALL	ALL
6	03-17-2006	Editorial Changes, Personnel, & Content Update	ALL	ALL
7	08-01-2008	Copyright, Editorial, & Personnel	INTRO, I, II, IV	Various
8	02-16-2009	Copyright & Aircraft	INTRO, II	1, 2
9	07-20-2012	Editorial Changes, Personnel, & Content Update	ALL	ALL
10	10-10-2017	Editorial Changes, Personnel, & Content Update	ALL	ALL
11	05-21-2018	Copyright, Editorial Changes, & Complex Related Updates	INTRO, V, VI	ALL
12	05-10-2021	Editorial Changes, Personnel, Content, & TAA Related Updates	ALL	ALL
13 / Master Original	09-29-2023	Initial Offering of Combined Master Training Course Outline Replacing Individual TCOs Approved Since 1997.	ALL	ALL
14 / Master 1	05-01-2024	Update Management Personnel For Chief Instructor, Assistant Chief Instructor, & For Satellite Assistant Chief. Update Flight Briefing Area Diagrams. Removed BATD from Equipment. Update Course Descriptions. Add End of Course Review Check to TCO. Remove LOC-BC From Flight Lessons & Prepare Flight Lessons for Loss of Local VORS.	INTRO, I, II, IV, V, VI	ALL
15	11-1-2024	Split from Master Back to Individual TCO with Requisite Header & Content Updates. Update Personnel to Include Director of Flight Operations	COVER, TABLE OF CONTENTS, I-VI	VARIOUS
16	07-23-2025	Editorial Changes, Content Update, Update Flight Briefing Area Diagrams and Provisions for Examining Authority	ALL	ALL

**FAA Approved**  **GL-FSDO-05**

Karin Hensellek	POI
<b>Printed Name</b>	<b>Title</b>
KARIN L HENSELLEK <small>Digitally signed by KARIN L HENSELLEK        Date: 2025.02.11 10:40:41 -0500</small>	02/11/2026
<b>Signature</b>	<b>Date</b>

## **SECTION I FACILITIES**

### **TRAINING CENTER**

The Training Center is the focal point for all flight lesson activity. The Training Center is located on the second floor of the Sportsman's Market, Inc. building at the Clermont County/Sporty's Airport. Adequate areas are provided for the dispatch and recovery of all flight lesson activity.

In addition, the Training Center provides three (3) Flight Briefing Areas.

### **FLIGHT BRIEFING AREAS**

All flight briefing areas are equipped with tables and chairs adequate for both students and instructors.

In Flight Briefing Area No. 1, a telephone is available to provide communication with a Flight Service Station.

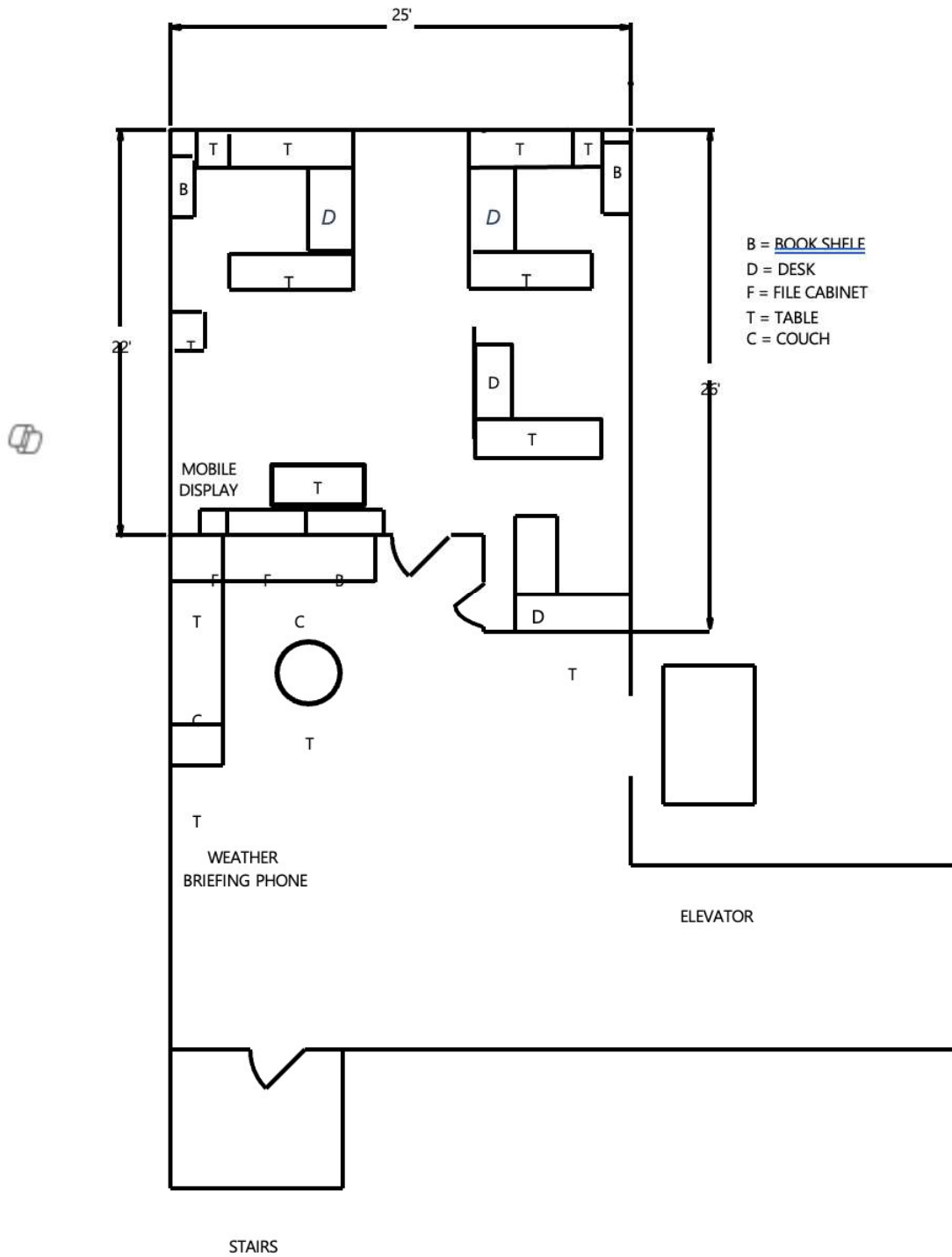
### **SATELLITE BASE**

Sporty's Academy may conduct the classroom portion of the academic course at a satellite training facility. The classrooms used are provided by the University of Cincinnati. The typical University of Cincinnati Classroom is adequately equipped to present the appropriate ground lessons.

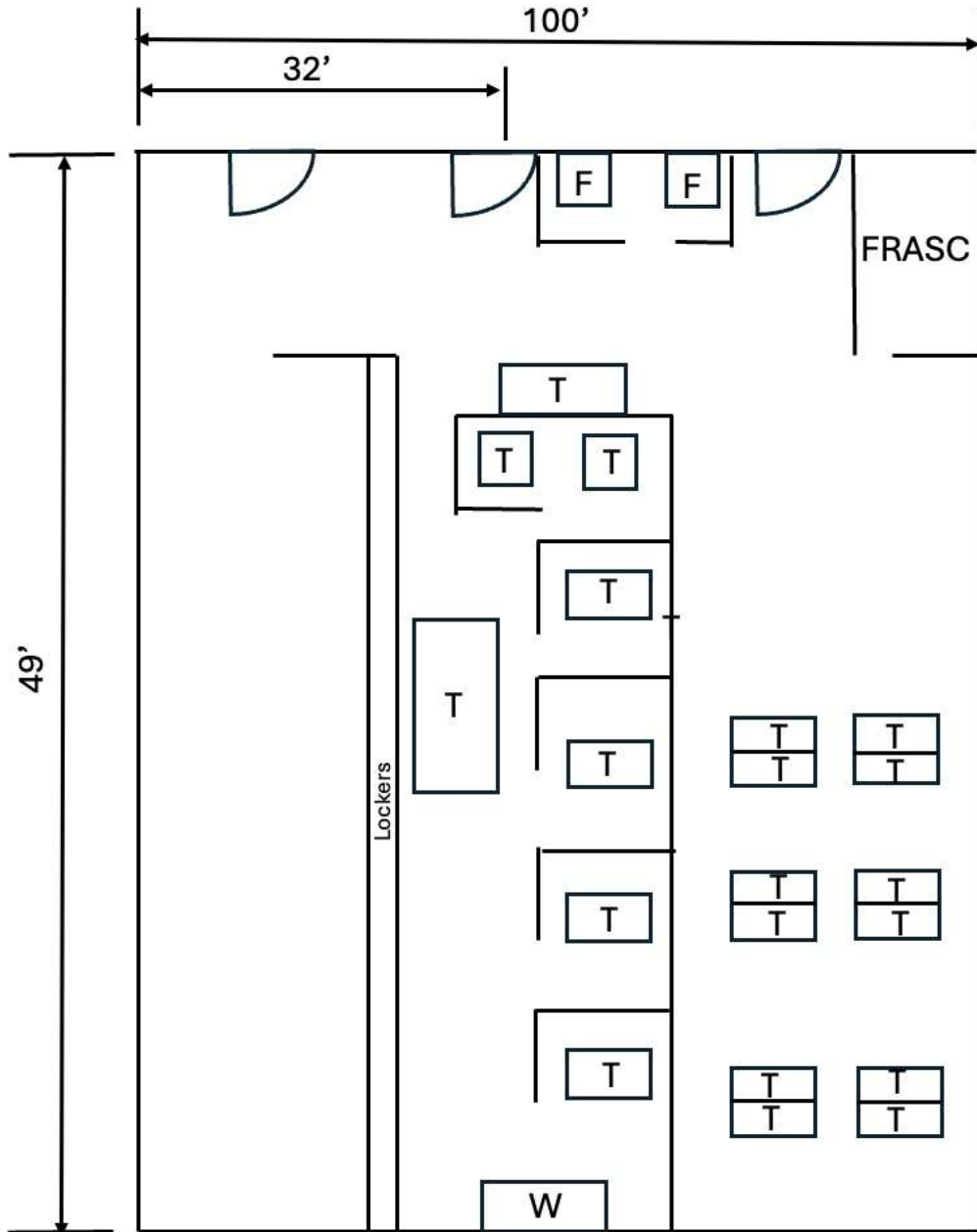
University of Cincinnati  
Clermont College  
4200 Clermont College Drive  
Batavia, OH 45103

Note: All rooms and areas conform to local building, sanitation, and health codes. All rooms are designed and located so that students will not be distracted by the instruction conducted in other rooms or by flight and maintenance operations on the airport.

**FLIGHT BRIEFING AREA #1**  
**MAXIMUM NUMBER OF STUDENTS = 10**

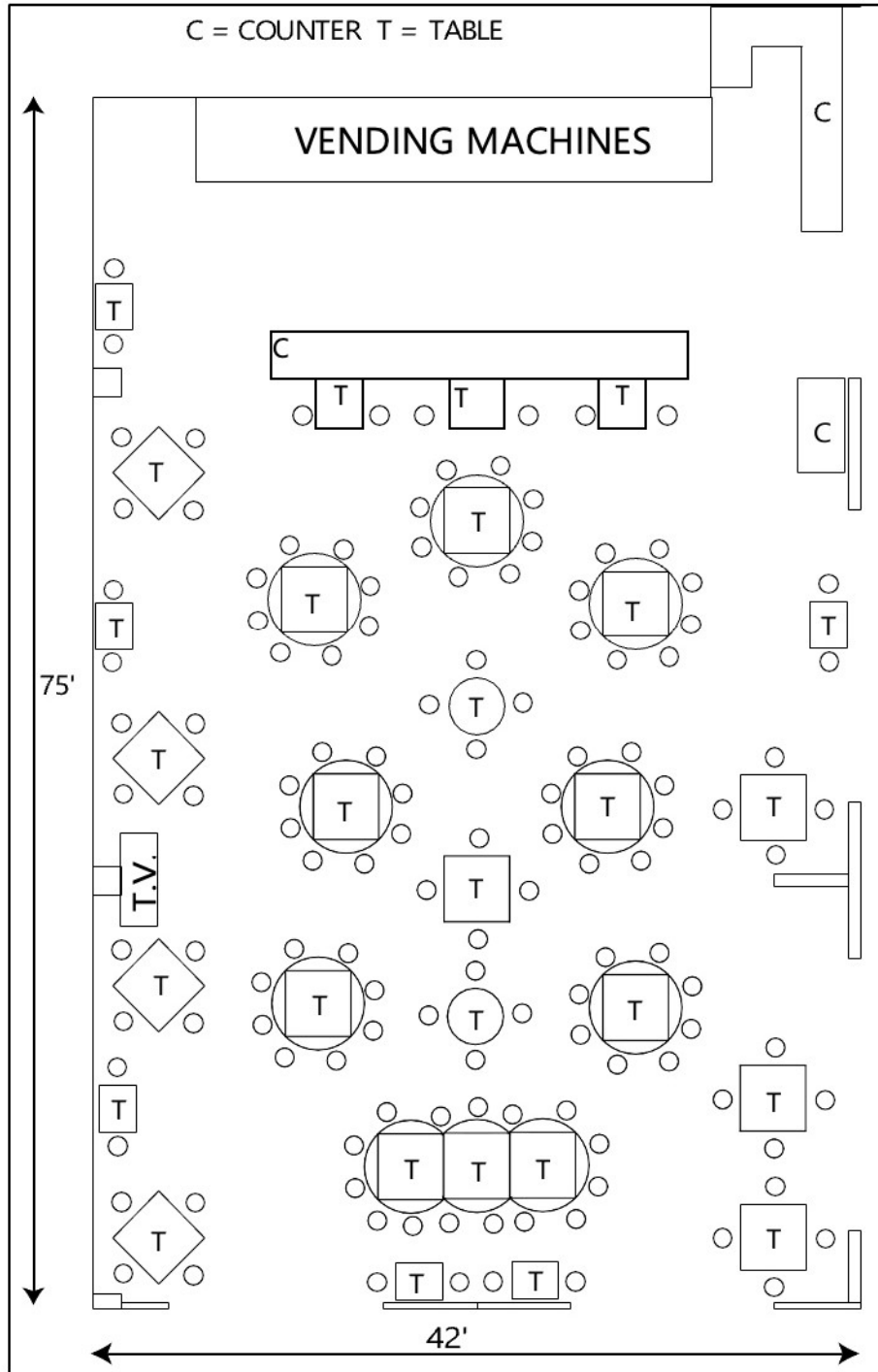


**FLIGHT BRIEFING AREA #2**  
**Maximum Number of Students=75**



T-Table    W- Workstation  
F-Fixed Training Device  
FRASC- FRASCA A RTD/AATD

**FLIGHT BRIEFING AREA #3**  
**MAXIMUM NUMBER OF STUDENTS = 75**

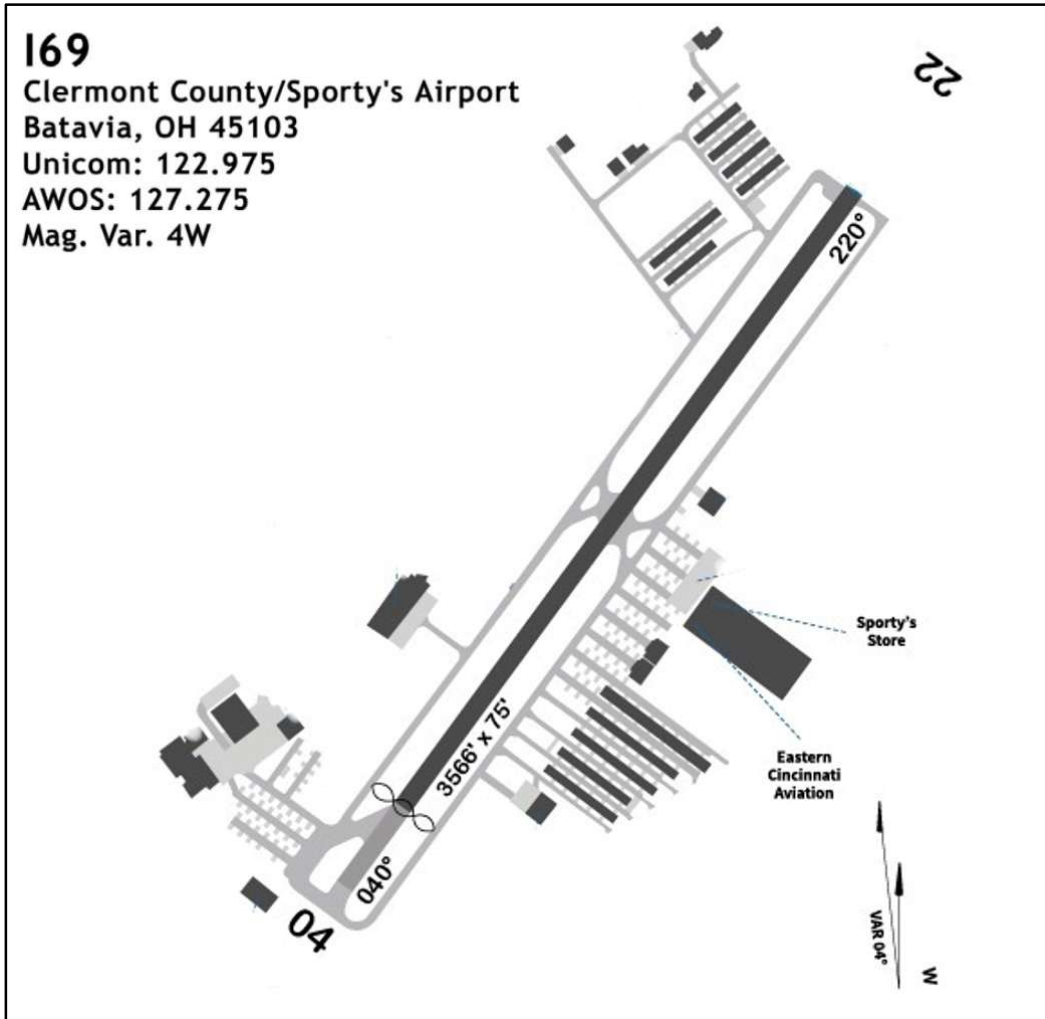


**AIRPORT**

Clermont County/Sporty's Airport (I69) is the main operations base for training. The airport has one hard surface runway and meets the requirements of 14 CFR §141.38 for day and night flight operations.

The airport provides Area Navigation, RNAV (GPS), approaches. Fuel and maintenance services are available between 0800 and 1800 hours, Monday through Saturday, and between 1100 and 1800 on Sundays.

**AIRPORT DIAGRAM**



## SECTION II EQUIPMENT

### GROUND TRAINING AIDS

The training aids available for use, as appropriate, in this course are as follows:

- Flight Instruments for demonstration purposes.
- Projectors, televisions, white boards, tablets, and computers.
- For enhancement and reinforcement of training, a variety of videos, online programs, tablet apps, and computer software are available
- Models of airplanes for demonstration
- Sporty's Learning Management System (LMS) may be used as an additional method to provide ground instruction in a synchronous or asynchronous manner as a planned part of the syllabi within this TCO. Other technologies may be utilized to supplement the LMS as needed. Monitoring of student activity and verification of online ground lesson attendance, testing and evaluation, and other routine classroom procedures may be completed through these technologies as required. Ground instruction completed within an LMS or remote environment will be included in the student's training record.

### ADVANCED AVIATION TRAINING DEVICE

The aircraft that may be used in this course are as follows: The Frasca RTD Advanced Aviation Training Device is a stationary trainer equipped with the necessary flight controls to simulate flight around the three axes of an airplane.

It is modeled as a Cessna 172. The Cessna 172 may be configured with a Garmin G1000 Integrated Flight Deck or traditional round dial instruments.

The Frasca RTD may be equipped with the following instrument displays:

G1000 -

1. Primary Flight Display (PFD)
2. Multi-Function Display (MFD)
3. Standby Airspeed Indicator
4. Standby Attitude Indicator
5. Standby Sensitive Altimeter
6. Magnetic Direction Indicator

Round Dial -

1. Airspeed Indicator
2. Attitude Indicator
3. Sensitive Altimeter
4. Turn Coordinator
5. Horizontal Situation Indicator (HSI) or Heading Indicator
6. Vertical Speed Indicator
7. Magnetic Direction Indicator
8. Clock

In addition, the Frasca RTD AATD may be equipped with the following avionics:

G1000 -

1. One simulated audio panel
2. Simulation of two integrated avionics units (Garmin GIA 63W) with interaction through the PFD, MFD and audio panel
3. One 2-axis autopilot with available flight director
4. One transponder

Round dial -

1. One audio panel with three light marker beacons
2. Two VHF communications radios
3. Two VOR/GPS navigation radios coupled to a VOR/LOC or HSI indicator
4. One medium/low frequency navigation receiver coupled to a relative bearing indicator
5. One transponder

A computer records the flight path flown during the use of the Advanced Aviation Training Device and allows the instructor to interact with the flight training environment.

Three high-resolution visual displays provides feedback to the student with regard to the outcome of visual maneuvers and instrument approaches.

This Advanced Aviation Training Device meets the requirements specified in 14 CFR §141.41 (b) and may be used to meet the total simulated flight time allowed in 14 CFR Part 141 for the following Appendices: B, C, D, E, F, G, I, and M as provided in its current FAA Letter of Authorization (LOA).

#### **AIRCRAFT**

The aircraft that may be used in this course are as follows:

1. Cessna 172 (4 Place)
  - a. All but 3 TAA aircraft per 14 CFR §61.129
2. Cessna 172RG (4 Place, Complex)
  - a. Non TAA aircraft per 14 CFR §61.129
3. Cessna 182 (4 Place, High Performance)
  - a. TAA per 14 CFR §61.129

Each student must demonstrate satisfactory proficiency prior to receiving an endorsement to operate as PIC any Complex or High-Performance aircraft.

All aircraft used in this course must:

1. Be registered as a civil aircraft of the United States and certified in the Standard Airworthiness, Primary Airworthiness, or Special Light-Sport Airworthiness category.
1. Be maintained and inspected in accordance with the requirements of 14 CFR Part 91.
2. Have engine power controls and flight controls easily accessible and that operate in a normal manner from each pilot station.
3. Meet the requirements stated in 14 CFR § 141.39(a)(5) when used for IFR operations.

**SECTION III  
TRAINING AIRPORTS**

All airports in this course must meet the requirements outlined in 14 CFR §141.38.

In addition to the Clermont County/Sporty's Airport, the airports listed at <https://sportysacademy.com/customerportal1/approved-airports/> are approved for use during training and meet these requirements.

Only a Chief Instructor or a member of Sporty's Academy Management may approve airports other than those listed.

Airports listed without a hard surfaced runway or with a runway less than 3000' long may only be used on Dual flights with a Sporty's Academy instructor in an approved aircraft.

## **SECTION IV PERSONNEL**

### **MEMBERS OF MANAGEMENT**

The individuals listed below are considered to be the members of management for Sporty's Academy, Inc. Any interaction, requests, or other necessary contact concerning Sporty's Academy should be accomplished through the following individuals.

*President - Charles Gallagher*

*Director of Flight Operations - Dustin M. Yockey*

### **CHIEF INSTRUCTOR**

Chief Instructor designated for this course must meet the requirements outlined in 14 CFR §141.35 and will be designated by letter per LOA A006.

*Chief Instructor – Paul E. Jurgens II*

### **ASSISTANT CHIEF INSTRUCTOR**

The Assistant Chief Instructor designated for this course must meet the requirements outlined in 14 CFR §141.36 and will be designated by letter per LOA A006.

*Assistant Chief Instructor - Dustin M. Yockey*

*Assistant Chief Instructor - Jayme L. Frederick*

### **CHECK INSTRUCTOR**

Check Instructors designated for this course must meet the requirements outlined in 14 CFR §141.37 and will be designated, in writing, by a Chief Instructor and approved by the Flight Standards District Office as required by 14 CFR §141.37 (b). Records of these designations will be maintained.

### **FLIGHT INSTRUCTOR**

Each flight instructor assigned to this course must be the holder of at least a Commercial Pilot Certificate with an Airplane category rating and a Single Engine Land class rating. In addition, each instructor must hold a Flight Instructor Certificate with an Airplane category rating, with a Single Engine class rating. All flight instructors are required to hold at least a third class medical certificate or meet alternative medical requirements as allowed by the FAA under 14 CFR §61.23(c), also known as BasicMed.

### **OTHER INSTRUCTOR**

Each instructor assigned to this course for the purpose of teaching ground lessons must meet the flight instructor requirements listed above or hold a Ground Instructor certificate with an Advanced rating.

## SECTION V TRAINING COURSE INTRODUCTION

The Commercial Pilot Certification Course utilizes the building-block theory of learning, which recognizes that each item taught is presented on the basis of previously learned knowledge and skills.

Optimum effectiveness is realized when ground lessons and the viewing of the associated Sporty's Learning Management System (LMS) content are 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 conduct a short review of essential material.

### COURSE ELEMENTS

The Commercial Pilot Certification Course utilizes integrated flight and ground segments. The course includes the latest FAA Airman Certification Standards (ACS) and a maximum of student-oriented instruction. The syllabus and support materials not only provide necessary information but also guide the student through the training in a logical manner.

### PREFLIGHT ORIENTATION

Prior to each dual lesson, an instructor must provide the student with an 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 defines unfamiliar terms and explains the maneuvers and objectives of each lesson.

### LESSON REVIEW

When a lesson plan contains review tasks and maneuvers, the flight should begin with a review of previously learned maneuvers and tasks before new maneuvers and tasks are introduced. The instructor must be confident that the student can perform review tasks and maneuvers to the standards of the lesson.

### USE OF AN AVIATION TRAINING DEVICE OR A FLIGHT TRAINING DEVICE

The Commercial Pilot Certification Course allows, as an option, the use of an approved basic or advanced aviation training device (BATD/AATD) for those lessons designated in the Course Time Allocation Table under the ATD/FTD heading and other lessons based on the discretion of a Chief Instructor or a member of management to the extent allowed by in 14 CFR Part 141 regulations and the manufacturer's letter of authorization (LOA) from the FAA. The best results are obtained when a BATD/AATD introduction is accomplished just prior to the flight lesson.

Training time in a BATD, an unapproved AATD, or a PCATD cannot be counted toward the total flight training time required under Part 141.

The FAA Letter of Authorization (LOA) for the Frasca RTD AATD allows its use for up to 20% (24 hours) of the total 120 hours required by 14 CFR 141, Appendix D.

### 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 and helps to prepare the student for the next lesson.

The instructor must bear in mind that all the times listed on the Course Time Allocation Table are recommended. The time designated for each lesson reflects the time spent with the well-prepared student. If necessary, additional time may be allotted.

### STUDENT STAGE CHECKS AND END-OF-COURSE TEST

Stage checks and end-of-course test measure the student's accomplishments during each stage of training. The conduct of each stage check and the end-of-course test is the responsibility of the Chief Instructor. The authority to conduct these checks and tests may be delegated by the Chief Instructor to an Assistant Chief Instructor or Designated Check Instructor. This procedure provides close supervision of training and another opinion on the student's progress. The stage checks and end-of-course test also give the Chief Instructor an opportunity to check the effectiveness of the instructors and their teaching methods.

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. The Chief Instructor may approve flight operations in the subsequent stage, provided that this approval is documented and for a specific reason. Valid reasons might include aircraft maintenance that is preventing progress in the current stage or a client medical issue that temporarily prevents solo flight operations in the current stage. Operations in the subsequent stage should be limited.

## GROUND TRAINING

In accordance with 14 CFR Part 141, ground training is an integral part of the pilot certification course. The ground training portion of the course may be presented to the student as a formal classroom program, individually by the instructor, or through Sporty's LMS. The ground lessons may be taught through the course of flight training or may be presented as an entire unit prior to the flight training. For a student who enrolls in this course who has a current knowledge test, their ground instruction will be tailored to ensure they demonstrate adequate knowledge per 14 CFR Part 141, Appendix B. 3. prior to the practical test. This allows greater flexibility and accommodation to individual student needs. In any case, no flight lesson may be conducted until the appropriately sequenced ground lesson has been completed.

The ground instruction is provided using three methods in the Commercial Pilot Certification Course: person to person discussion (individual or class), flight briefings, and video instruction. All three methods meet or exceed the minimum ground training requirement of 35 hours.

Sporty's LMS provides electronic tracking of the student's time spent on each topic which is viewable by the flight instructor. This tracking information will be transferred to the student's training record for review by the Chief Instructor during the graduation process. The video instruction portion of Sporty's LMS is designed to be viewed prior to the associated ground instruction and are noted by "ADDITIONAL STUDY" at the end of the ground lesson where appropriate. Sporty's LMS may be utilized in the form of online content, tablet apps, television apps, and other equivalent formats that allow tracking of views. Maximum LMS time for individual lessons is published in the signature block.

## FLIGHT TRAINING

This course includes at least 120 hours of flight training (of which 55 hours must be with a certificated flight instructor) that are appropriate for an Airplane Single Engine Land (ASEL), including:

1. Ten hours of instrument training using a view-limiting device including attitude instrument flying, partial panel skills, recovery from unusual flight attitudes, and intercepting and tracking navigational systems.
2. Ten hours of training in a complex airplane.
3. One 2-hour cross country flight in daytime conditions in that consists of a total straight-line distance of more than 100 nautical miles from the original point of departure;
4. One 2-hour cross country flight in nighttime conditions that consists of a total straight-line distance of more than 100 nautical miles from the original point of departure; and
5. 3 hours in preparation for the practical test within 60 days preceding the date of the test.

Flight training must include the following approved areas of operation for an ASEL:

- Preflight preparation;
- Preflight procedures;
- Airport operations;
- Takeoffs, landings, and go-arounds;
- Performance maneuvers;
- Navigation;
- Slow flight and stalls;
- Emergency operations;
- High Altitude operations; and
- Postflight procedures.

**Solo Flight Training:** 10 hours of solo flight training that includes at least:

1. One cross-country flight with landings at a minimum of three points, and one segment of the flight consisting of a straight-line distance of at least 250 nautical miles; and
2. 5 hours in night VFR conditions with 10 takeoffs and 10 landings (with each landing involving a flight with a traffic pattern) at an airport with an operating control tower.

**Stage checks and end-of-course test:**

1. Each student must satisfactorily accomplish the stage checks and end-of course test according to the syllabus lessons and completion standards for an ASEL.

**COMMERCIAL PILOT CERTIFICATION COURSE IMPLEMENTATION**

In an effort to maximize training time the syllabus lessons are divided into three general categories (where appropriate): Dual, Solo, and PIC.

Dual – Lessons during which the instructor introduces new maneuvers or tasks.

Solo – Lessons that require the student to be the sole occupant of the airplane.

PIC – Lessons that the student may take a passenger or another certificated pilot. During these flights the following applies:

1. If the other occupant is a passenger, the occupant does not log any time.
2. If the other occupant is a certificated pilot:
  - a. When the PIC is completing simulated instrument time, the occupant can act as a safety pilot and log PIC time, but cannot log any cross country flight time.
  - b. When the PIC is not completing simulated instrument time, the occupant cannot log any PIC flight time.
  - c. For a PIC cross country flight with the intent to practice CRM skills:
    - i. the occupant must be a student in the Commercial Pilot course (with lesson one in this syllabus completed) or hold a Commercial Pilot Certificate and,
    - ii. will be in a Pilot Monitoring role and,
    - iii. the occupant will not log PIC or cross-country time.

The lesson sequence and content have been designed to provide the student with maximum training prior to the introduction of new maneuvers or procedures.

If absolutely necessary, the placement of lesson assignments in the coordinated program may be changed by allowing the student to progress more rapidly. If this method is used, the student should not be allowed to progress into the next stage until the completion of all flight lessons in the current stage of training. The only exception to this is that ground lessons may be accomplished prior to the completion of the previous stage or when approved as previously defined.

If deviation from the normal lesson progression is desired, the Chief Instructor can approve the change of sequence of Solo and PIC lessons. Only a Chief Instructor may grant approval for the change of sequence of Dual and Ground lessons (except as previously specified that ground lessons may be completed earlier). Flight lessons should not be conducted prior to the appropriately sequenced ground lessons. For example, if lesson #10 is a ground lesson, then lessons #11, 12, 13, etc., should not take place until lesson #10 has been satisfactorily completed.

The lessons may also be grouped in accordance with geographical locations for the training. Lessons are labeled in the following manner:

Local	The lesson is designated to take place within the designated practice area or within 25 nautical mile radius of the departure airport.
Non-Local	The lesson is designed to take place within 50 nautical miles of the departure airport. The lesson will require the use of at least one form of navigation and should provide a landing at an airport other than the departure point.
Cross-Country	The lesson is designed to provide a landing at an airport greater than 50 nautical miles from the departure point.

If the student is completing the ground training and flight training courses concurrently, the flight instructor must ensure that the student's flight training does not progress faster than the ground training.

**GRADING INSTRUCTIONAL LESSONS**  
**FLIGHT LESSONS**

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

All content pilot operations tasks marked "Lesson Task" must be completed and graded. Any task that is graded must meet or exceed the completion standard for that specific lesson for the student to move on to the next lesson. The instructor, at their discretion, may advance a student to the next lesson if there will be an opportunity to repeat the tasks graded below lesson completion standards on that next lesson.

Each pilot operation or task will be evaluated at the completion of each instructional lesson.

1 = EXCEEDS AIRMAN CERTIFICATION STANDARDS (ACS)	The student demonstrates knowledge or skills that exceed the lesson completion standard or ACS as appropriate, with no procedural or mechanical errors. The flight instructor does not provide any assistance.
2 = MEETS AIRMAN CERTIFICATION STANDARDS (ACS)	The student demonstrates knowledge or skills that exceed the lesson completion standard or meet the ACS as appropriate. Occasional procedural or mechanical errors are quickly recognized and corrected.
3 = AVERAGE	The student consistently demonstrates knowledge and skills that meet lesson completion standards with timely recognition of procedural or mechanical errors.
4 = BELOW AVERAGE	The student demonstrates knowledge and skills with difficulty. They are slow in recognizing and correcting procedural or mechanical errors.
5 = BELOW ACCEPTABLE STANDARDS	The student does not demonstrate adequate knowledge or skills. They are unable to recognize and correct procedural or mechanical errors.
I = INCOMPLETE	The student has not completed the pilot operation task listed.

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

S = SATISFACTORY	The content of the lesson has been completed to the standards outlined in the individual lesson's Completion Standards.
U = UNSATISFACTORY	Indicates that all or part of the lesson content was not completed to the standards outlined in the individual lesson's Completion Standards. One or more pilot tasks/operations graded as a "5" when the required Completion Standard is 4 or above, will require an overall grade of unsatisfactory.
I = INCOMPLETE	Indicates the content of the lesson was not completed, but the pilot tasks/operations covered were satisfactory. Pilot operations not completed must be indicated with an "I."

**RECORDING SOLO FLIGHT LESSONS**

The student will indicate each task performed on the solo lesson sheet with the following grading scale to show completion. Any task performed that is not listed must be noted in the remarks section or other designated field. Cross-country routes shall also be recorded in the remarks section or other designated field.

The overall solo lessons will be assigned a "grade" based on the following criteria.

SP = STUDENT PRACTICE	The student completed all the pilot operations listed on the lesson sheet.
I = INCOMPLETE	The student did not complete all the pilot operations listed on the lesson sheet.

**GROUND LESSONS**

For ground instruction lesson, all content pilot operations tasks marked "Lesson Task" must be completed and marked with a "C" designating the completion of the instructional element.

The overall ground lessons will be assigned a "grade" based on the following criteria.

C= COMPLETE	The student completed all the content tasks listed on the lesson sheet.
I = INCOMPLETE	The student did not complete all the content tasks listed on the lesson sheet.

**GRADING NOTES**

- When a lesson is graded unsatisfactory, only those tasks graded below lesson completion standards must be repeated to standards during the next lesson.
- When a lesson is graded incomplete, the tasks not performed must be completed prior to attempting the tasks for the next lesson.
- When a paper TCO is being utilized, 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.

## STUDENT INFORMATION

### COURSE ENROLLMENT

- To enroll in this course, you must be at least 17 years of age and able to read, speak, write, and understand the English language.
- To begin the flight portion of this course, you must hold at least a Private Pilot Certificate with an Instrument Rating for airplanes or be concurrently enrolled in an instrument rating course that is appropriate to an Aircraft Single Engine Land (ASEL) and pass the required Instrument Rating Practical test prior to completing the Commercial Pilot Certification Course.
- A Third Class FAA medical (or higher) or Basic Med must be obtained prior to the first flight lesson.

### REQUIREMENTS FOR GRADUATION

- You must satisfactorily complete the training outlined in this syllabus.
- To obtain a Commercial Pilot Certificate, you must hold at least a Private Pilot Certificate or meet the requirement of 14 CFR §61.73.
- You must be at least 18 years of age and be able to read, speak, write, and understand the English language.
- In order to graduate from this course, you must meet the flight and ground training time requirements specified in 14 CFR Part 141, Appendix D.

### LESSON DESCRIPTION AND STAGES OF TRAINING

Each lesson is fully described within the syllabus, including the objectives, standards, and measurable units of accomplishment and learning. The stage objectives and standards are described at the beginning of each stage within the syllabus.

### TESTS AND CHECKS

The syllabus incorporates stage checks and an end-of-course test in accordance with 14 CFR Part 141. The conduct of each stage check and end-of-course test is the responsibility of the Chief Instructor. The authority to conduct these checks and tests may be delegated to an Assistant Chief Instructor or Designated Check Instructor as appropriate.

### STUDENT USE OF THIS TRAINING COURSE OUTLINE AND SYLLABUS

Students should use this document to aid in preparation and review of each ground and flight lesson. Students should be aware of each lesson's objective and completion standards, as they will be evaluated against those standards.

The "additional study" items on each lesson should be reviewed by the student prior to completing that lesson regarding the pilot operation tasks listed. Various FAA handbooks are indicated by the FAA publication number and abbreviation. Students are required to use the Sporty's Commercial Pilot Course video course.

Students will navigate between video chapters as standard component of the integrated ground and flight training process. It's in the best interest of each student to be familiar with all of the features within the video course, including the Flight Maneuvers Guide and the Interactive Scenarios.

Sporty's Commercial Pilot Course video course segments are indicated as "Vol #: Segment #."

- Volume 1: Commercial Pilot Training
- Volume 2: Flight Procedures and Maneuvers
- Volume 3: Weather for Pilots
- Volume 4: Aerodynamics and Performance
- Volume 5: Airplane Systems and FARs
- Volume 6: Navigation and Cross-Country
- Volume 7: Interactive Scenarios (Optional)

**COMMERCIAL PILOT CERTIFICATION COURSE  
FLIGHT TRAINING SYLLABUS**

**COURSE OBJECTIVES**

The student will obtain the aeronautical skills and experience necessary to meet the requirements for a Commercial 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 Commercial Pilot Certificate (ASEL) are accomplished.



SPORTY'S ACADEMY  
 TRAINING COURSE OUTLINE  
 COMMERCIAL PILOT CERTIFICATION COURSE

	69	1.8				0.3				1.5
<b>Course Totals</b>	<b>57</b>	<b>12.9</b>	<b>41.0</b>	<b>10.9</b>	<b>18.0</b>	<b>61.0</b>	<b>9.4</b>	<b>10.0</b>	<b>36.3</b>	
<b>Course Completion Minimums/ FAA 141 Requirements</b>	<b>55.0</b>	<b>10.0</b>			<b>18.0</b>	<b>3.0</b>		<b>10.0</b>	<b>35.0</b>	
<b>Course Total Flight Training</b>	<b>121.8</b>					<b>Course Night Solo</b>	<b>5.9</b>			
<b>Course Completion Minimums</b>	<b>120</b>					<b>Course Completion Minimums</b>	<b>5.0</b>			

\* Course maximum LMS time is 13 hours of the required 35 total hours.

Note: Times on this chart are recommended in order to fulfill the Course Completion Minimums. However, the Course Completion Minimums are not recommendations and must be attained prior to graduation. This includes 120 hours minimum of total flight training (Dual, Solo, PIC, & approved AATD - of which no more than 24 hours can be in an approved AATD)

## **STAGE I**

### **STAGE OBJECTIVES**

During this stage, the student will learn how to competently fly the aircraft on a VFR cross-country flight. The student will learn about more complex cross-country operations, night cross-country operations, and fundamentals of multi-pilot crew operations.

### **STAGE COMPLETION STANDARDS**

At the completion of this stage, the student should demonstrate the ability to accurately plan and accomplish cross-country flight to the standards of a commercial pilot. In addition, the student will demonstrate the ability to appropriately act as the Pilot in Command of the aircraft through the proper use of Crew Resource Management in a multi-pilot crew operation.

**Note:** Stage I may be completed prior to completing an Instrument Rating when concurrently enrolled in both courses.

**STAGE I**  
**LESSON 1**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (2.5) _____ LMS CREDIT (MAX 6.7) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to refine the student's VFR cross-country planning procedures and provide a foundation on the procedures required for the proper use of CRM.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Cross-Country Flight Planning	C		Recognition of Critical Weather Situations	C
	Federal Aviation Regulations	C		Aeronautical Decision Making & Judgment	C
	National Airspace System	C		Flight Deck Management	C
	Aeronautical Charts & Publications for VFR	C		Collision Avoidance	C
	Performance & Limitations	C		Crew Resource Management	C
	Weight & Balance Computations	C		Risk Management	C
	Aircraft Performance Calculations	C		Task Management	C
	VFR Flight Plan	C		Situational Awareness	C
	Planning for Alternatives	C		Controlled Flight into Terrain Awareness	C
	Lost Procedures	C		Automation Management	C
	Diversion	C		Radio Communications	C
	Fuel Requirements	C		Pilot Flying	C
	Altitude/ Route Selection	C		Pilot Not Flying (Pilot Monitoring)	C
	Navigation Log	C		Challenge & Response Checklist Usage	C
	Pilotage	C		Flow Checks	C
	Dead Reckoning	C		Sterile Cockpit	C
	VOR Navigation	C		PIC Brief	C
	GPS Navigation	C		Departure Briefing	C
	Procurement & Use of Aviation Weather	C		Division of Responsibilities	C
	Reports & Forecasts	C		Emergency Operations	C

**COMPLETION STANDARDS**

The student shall accurately plan a VFR cross-country near the maximum range of the aircraft. Computations shall be based upon maximum allowable passenger, baggage, and/or cargo loads and will require maximum performance from the aircraft. In addition, the student should demonstrate a basic foundation of the necessary skills required to operate in a two-pilot crew through role playing.

**ADDITIONAL STUDY**

AC 91-92 – Pilot's Guide to Preflight Briefing  
 FAA-H-8083-25-PHAK – Pilot's Handbook of Aeronautical Knowledge  
 FAA-H-8083-28-AWH – Aviation Weather Handbook  
 FAA-H-8083-2 – RMH – Risk Management Handbook  
 FAA-H-8083-1 – WB – Weight and Balance Handbook

Commercial Pilot Airman Certification Standards (ACS)  
 Sporty's Commercial Pilot Course Vol 2: Segment 8  
 Vol 3: Segments 1-8  
 Vol 4: Segments 6, 8  
 Vol 6: Segments 1-4, 6, 7, 9, 11-17, 19, 20

**STAGE I**  
**LESSON 2**  
**DUAL – CROSS COUNTRY**  
**DAY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (3.5) _____ HOOD (1.0) _____
GROUND (0.5) _____ LMS CREDIT (MAX 1.8) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will be introduced to the expectations of a commercial pilot when performing a **day cross-country flight with a straight-line distance more than 100 nautical miles from the original departure point, with the flight at least 2-hours in duration**. The student will expand upon a previous knowledge about cross-country flight. A portion of the flight will be conducted using basic attitude instrument skills with a view limiting device (V.L.D.).

**CONTENT**

Lesson Task		Lesson Task		
Task Grade	Completion Standard	Task Grade	Completion Standard	Completion Standard
	Weather Information	3	Go-Around / Rejected Landing	3
	National Airspace System	3	Departure & Course Interception	3
	Performance & Limitations	3	Navigation Log	3
	Cross-Country Flight Planning	3	Lost Procedures	3
	VFR Flight Plans	3	Aeronautical Charts & Publications for VFR	3
	Power Setting & Mixture Control	3	Planning for Alternatives	3
	Challenge & Response Checklist Usage	3	Diversion	3
	Flow Checks	3	Radar Services	3
	PIC Brief	3	Altitude/ Route Selection	3
	Departure Briefing	3	Pilotage	3
	Division of Responsibilities	3	Dead Reckoning	3
	Sterile Cockpit	3	VOR Navigation (if equipped)	3
	Basic Attitude Instrument Flying (with V.L.D.)	3	GPS Navigation	3
	Normal Takeoff & Climb	3	Emergency Approach & Landing	3
	Normal Approach & Climb	3	Systems & Equipment Malfunctions	3
	Soft-Field Takeoff & Climb	3	Flight Deck Management	3
	Soft-Field Approach & Landing	3	Communications & Light Signals	3
	Short-Field Takeoff & Climb	3	Traffic Patterns	3
	Short-Field Approach & Landing	3	After Landing Checks	3
	Forward Slip to Landing	3	Parking, Securing, & Proper Tie Down	3

**COMPLETION STANDARDS**

This lesson will be complete when the student has accurately planned and completed **a day cross-country to a destination with a straight-line distance more than 100 nautical miles from the original departure point, with the flight at least 2-hours in duration**.

- The flight should be planned to include a total of three legs, two of the legs the student should be the pilot flying and one leg the pilot not flying.
- The student should demonstrate the ability to perform takeoffs, landings, go-arounds, and navigation skills to within 150% of the standards listed in the current FAA Commercial Pilot Airman Certification Standards.
- The student should demonstrate to the instructor a basic comprehension of operations in a multi-pilot crew situation throughout the flight and during BAI operations.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-28-AWH – Aviation Weather Handbook  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Commercial Pilot Airman Certification Standards (ACS)  
 Vol 1: Segment 14  
 Vol 2: Segments 5-7

Vol 3: Segment 15  
 Vol 4: Segments 7, 9  
 Vol 5: Segments 12, 13  
 Vol 6: Segments 5, 8, 10, 18

**STAGE I**  
**LESSON 3**  
**DUAL – CROSS COUNTRY**  
**NIGHT**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (3.5) _____ HOOD (1.0) _____
GROUND (0.5) _____ LMS CREDIT (MAX 0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will be introduced to the expectations of a commercial pilot when performing a **night cross-country flight with a straight-line distance more than 100 nautical miles from the original departure point, with the flight at least 2-hours in duration**. The student will expand upon a previous knowledge about cross-country flight. A portion of the flight will be conducted using basic attitude instrument skills with a view limiting device (V.L.D.).

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	3		Navigation Log	3
	National Airspace System	3		Lost Procedures	3
	Performance & Limitations	3		Aeronautical Charts & Publications for VFR	3
	Cross-Country Flight Planning	3		Planning for Alternatives	3
	VFR Flight Plans	3		Diversion	3
	Power Setting & Mixture Control	3		Radar Services	3
	Challenge & Response Checklist Usage	3		Altitude/ Route Selection	3
	Flow Checks	3		Pilotage	3
	PIC Brief	3		Dead Reckoning	3
	Departure Briefing	3		VOR Navigation (if equipped)	3
	Division of Responsibilities	3		GPS Navigation	3
	Sterile Cockpit	3		Emergency Approach & Landing	3
	Basic Attitude Instrument Flying (with V.L.D.)	3		Systems & Equipment Malfunctions	3
	Normal Takeoff & Climb	3		Flight Deck Management	3
	Normal Approach & Climb	3		Communications & Light Signals	3
	Soft-Field Takeoff & Climb	3		Traffic Patterns	3
	Soft-Field Approach & Landing	3		Physiological Aspects of Night Flying	3
	Short-Field Takeoff & Climb	3		Lighting & Equipment for Night Flying	3
	Short-Field Approach & Landing	3		Airport, Taxiway, & Runway Signs, Markings, & Lighting	3
	Forward Slip to Landing	3		After Landing Checks	3
	Go-Around / Rejected Landing	3		Parking, Securing, & Proper Tie Down	3
	Departure & Course Interception	3			

**COMPLETION STANDARDS**

This lesson will be complete when the student has accurately planned and completed a **night cross-country to a destination with a straight-line distance more than 100 nautical miles from the original departure point, with the flight at least 2-hours in duration**.

- The flight should be planned to include a total of three legs, two of the legs the student should be the pilot flying and one leg the pilot not flying.
- The student should demonstrate the ability to perform takeoffs, landings, go-arounds, and navigation skills to the standards listed in the current FAA Commercial Pilot Airman Certification Standards.
- The student should demonstrate to the instructor a basic comprehension of operations in a multi-pilot crew situation throughout the flight and during BAI operations.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook

Commercial Pilot Airman Certification Standards (ACS)  
 Vol 6: Segments 21, 22

**STAGE I**  
**LESSON 4**  
**SOLO – CROSS-COUNTRY**  
**NIGHT**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (2.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will practice and further develop their cross-country flight planning and procedures by flying solo to an airport with an operating control tower beyond 50 nautical miles. The student will practice radio communications and landings at this airport in order to increase proficiency and confidence.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Radar Services	C
	National Airspace System	C		Altitude/ Route Selection	C
	Performance & Limitations	C		Pilotage	C
	Cross-Country Flight Planning	C		Dead Reckoning	C
	VFR Flight Plans	C		VOR Navigation (if equipped)	C
	Power Setting & Mixture Control	C		GPS Navigation	C
	Normal Takeoff & Climb	C		Flight Deck Management	C
	Normal Approach & Climb	C		Communications & Light Signals	C
	Departure & Course Interception	C		Tower Controlled Airport Operations	C
	Navigation Log	C		Traffic Patterns	C
	Lost Procedures	C		Physiological Aspects of Night Flying	C
	Aeronautical Charts & Publications for VFR	C		Lighting & Equipment for Night Flying	C
	Planning for Alternatives	C		After Landing Checks	C
	Diversion	C		Parking, Securing, & Proper Tie Down	C

**COMPLETION STANDARDS**

The student shall accurately navigate from the departure airport to an airport greater than 50 nautical miles away and return to the departure airport.

- The student will demonstrate the skill to perform solo cross-country flights safely.
- In addition, the student shall practice night landings and increase their knowledge about operations at a towered airport.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-28-AWH – Aviation Weather Handbook  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 5**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (2.2) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will practice and further develop their cross-country flight procedures by flying to an airport outside of the local practice area at least 50 nautical miles away. In addition, the student may also increase their proficiency when operating in a multi-pilot crew environment if there is another certificated pilot on the flight.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Diversion	C
	National Airspace System	C		Radar Services	C
	Performance & Limitations	C		Altitude/ Route Selection	C
	Cross-Country Flight Planning	C		Pilotage	C
	VFR Flight Plans	C		Dead Reckoning	C
	Power Setting & Mixture Control	C		VOR Navigation (if equipped)	C
	Challenge & Response Checklist Usage	C		GPS Navigation	C
	Flow Checks	C		Flight Deck Management	C
	PIC Brief	C		Communications & Light Signals	C
	Departure Briefing	C		Traffic Patterns	C
	Division of Responsibilities	C		Normal Takeoff & Climb	C
	Sterile Cockpit	C		Normal Approach & Climb	C
	Tower Controlled Airport Operations	C		Soft-Field Takeoff & Climb	C
	Non-towered Controlled Airport Operations	C		Soft-Field Approach & Landing	C
	Departure & Course Interception	C		Short-Field Takeoff & Climb	C
	Navigation Log	C		Short-Field Approach & Landing	C
	Lost Procedures	C		After Landing Checks	C
	Aeronautical Charts & Publications for VFR	C		Parking, Securing, & Proper Tie Down	C
	Planning for Alternatives	C			

**COMPLETION STANDARDS**

The student should demonstrate added proficiency in cross-country planning. A landing at an airport greater than 50 nautical miles from the original departure point must be accomplished. In addition, if the student has another certificated pilot on the flight, the student shall have practices techniques for operating in a multi-pilot crew environment.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 6**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (4.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will practice and further develop their cross-country flight procedures by flying to an airport outside of the local practice area at least 50 nautical miles away. In addition, the student may also increase their proficiency when operating in a multi-pilot crew environment if there is another certificated pilot on the flight.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Diversion	C
	National Airspace System	C		Radar Services	C
	Performance & Limitations	C		Altitude/ Route Selection	C
	Cross-Country Flight Planning	C		Pilotage	C
	VFR Flight Plans	C		Dead Reckoning	C
	Power Setting & Mixture Control	C		VOR Navigation (if equipped)	C
	Challenge & Response Checklist Usage	C		GPS Navigation	C
	Flow Checks	C		Flight Deck Management	C
	PIC Brief	C		Communications & Light Signals	C
	Departure Briefing	C		Traffic Patterns	C
	Division of Responsibilities	C		Normal Takeoff & Climb	C
	Sterile Cockpit	C		Normal Approach & Climb	C
	Tower Controlled Airport Operations	C		Soft-Field Takeoff & Climb	C
	Non-towered Controlled Airport Operations	C		Soft-Field Approach & Landing	C
	Departure & Course Interception	C		Short-Field Takeoff & Climb	C
	Navigation Log	C		Short-Field Approach & Landing	C
	Lost Procedures	C		After Landing Checks	C
	Aeronautical Charts & Publications for VFR	C		Parking, Securing, & Proper Tie Down	C
	Planning for Alternatives	C			

**COMPLETION STANDARDS**

The student should demonstrate added proficiency in cross-country planning. A landing at an airport greater than 50 nautical miles from the original departure point must be accomplished. In addition, if the student has another certificated pilot on the flight, the student shall have practices techniques for operating in a multi-pilot crew environment.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 7**  
**SOLO – LOCAL**  
**NIGHT**

DATE _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____	
TOTAL IN COURSE (D/S/G) _____ / _____ / _____	

**LESSON OBJECTIVE**

During this flight, the student will practice the various aspects of night flight and gather experience in operations at tower-controlled airports.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	C		Normal Takeoff & Climb	C
	Physiological Aspects of Night Flying	C		Normal Approach & Climb	C
	Lighting & Equipment for Night Flying	C		Soft-Field Takeoff & Climb	C
	Communications & Light Signals	C		Soft-Field Approach & Landing	C
	Traffic Patterns	C		Short-Field Takeoff & Climb	C
	Tower Controlled Airport Operations	C		Short-Field Approach & Landing	C

**COMPLETION STANDARDS**

The student shall have performed landings at a local tower-controlled airport. The student should notice an increase in proficiency and abilities at accurately maneuvering the aircraft during night flight.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 8**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (4.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will practice and further develop their cross-country flight procedures by flying to an airport outside of the local practice area at least 50 nautical miles away. In addition, the student may also increase their proficiency when operating in a multi-pilot crew environment if there is another certificated pilot on the flight.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Diversion	C
	National Airspace System	C		Radar Services	C
	Performance & Limitations	C		Altitude/ Route Selection	C
	Cross-Country Flight Planning	C		Pilotage	C
	VFR Flight Plans	C		Dead Reckoning	C
	Power Setting & Mixture Control	C		VOR Navigation (if equipped)	C
	Challenge & Response Checklist Usage	C		GPS Navigation	C
	Flow Checks	C		Flight Deck Management	C
	PIC Brief	C		Communications & Light Signals	C
	Departure Briefing	C		Traffic Patterns	C
	Division of Responsibilities	C		Normal Takeoff & Climb	C
	Sterile Cockpit	C		Normal Approach & Climb	C
	Tower Controlled Airport Operations	C		Soft-Field Takeoff & Climb	C
	Non-towered Controlled Airport Operations	C		Soft-Field Approach & Landing	C
	Departure & Course Interception	C		Short-Field Takeoff & Climb	C
	Navigation Log	C		Short-Field Approach & Landing	C
	Lost Procedures	C		After Landing Checks	C
	Aeronautical Charts & Publications for VFR	C		Parking, Securing, & Proper Tie Down	C
	Planning for Alternatives	C			

**COMPLETION STANDARDS**

The student should demonstrate added proficiency in cross-country planning. A landing at an airport greater than 50 nautical miles from the original departure point must be accomplished. In addition, if the student has another certificated pilot on the flight, the student shall have practices techniques for operating in a multi-pilot crew environment.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 9**  
**SOLO – LOCAL**  
**NIGHT**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this flight, the student will practice the various aspects of night flight and gather experience in operations at tower-controlled airports.

**CONTENT**

Lesson Review		Lesson Task			
Task Grade	Completion Standard	Task Grade	Completion Standard	Completion Standard	
	Flight Deck Management	C		Normal Takeoff & Climb	C
	Physiological Aspects of Night Flying	C		Normal Approach & Climb	C
	Lighting & Equipment for Night Flying	C		Soft-Field Takeoff & Climb	C
	Communications & Light Signals	C		Soft-Field Approach & Landing	C
	Traffic Patterns	C		Short-Field Takeoff & Climb	C
	Tower Controlled Airport Operations	C		Short-Field Approach & Landing	C

**COMPLETION STANDARDS**

The student shall have performed landings at a local tower-controlled airport. The student should notice an increase in proficiency and abilities at accurately maneuvering the aircraft during night flight.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 10**  
**SOLO – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (7.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will practice and further develop their cross-country flight procedures by completing a solo cross-country flight that must consist of landings at a minimum of three points. The first segment of the flight must be a straight-line distance of at least 250 nautical miles. In addition, the student will have the ability to practice flight planning and flight operations near the maximum capabilities of the aircraft.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Radar Services	C
	National Airspace System	C		Altitude/ Route Selection	C
	Performance & Limitations	C		Pilotage	C
	Cross-Country Flight Planning	C		Dead Reckoning	C
	VFR Flight Plans	C		VOR Navigation (if equipped)	C
	Power Setting & Mixture Control	C		GPS Navigation	C
	Challenge & Response Checklist Usage	C		Flight Deck Management	C
	Flow Checks	C		Communications & Light Signals	C
	Departure Briefing	C		Traffic Patterns	C
	Tower Controlled Airport Operations	C		Normal Takeoff & Climb	C
	Non-towered Controlled Airport Operations	C		Normal Approach & Climb	C
	Departure & Course Interception	C		Soft-Field Takeoff & Climb	C
	Navigation Log	C		Soft-Field Approach & Landing	C
	Lost Procedures	C		Short-Field Takeoff & Climb	C
	Aeronautical Charts & Publications for VFR	C		Short-Field Approach & Landing	C
	Planning for Alternatives	C		After Landing Checks	C
	Diversion	C		Parking, Securing, & Proper Tie Down	C

**COMPLETION STANDARDS**

The student should demonstrate added proficiency in cross-country planning and selecting an appropriate route and cruising altitude for the flight.

**The flight must consist of landings at a minimum of three points. The first segment of the flight must be a straight-line distance of at least 250 nautical miles**

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 11**  
**SOLO – LOCAL**  
**NIGHT**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this flight, the student will practice the various aspects of night flight and gather experience in operations at tower-controlled airports. Upon completion, the student will have completed the required solo requirements for a Commercial Pilot Certificates.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	C		Normal Takeoff & Climb	C
	Physiological Aspects of Night Flying	C		Normal Approach & Climb	C
	Lighting & Equipment for Night Flying	C		Soft-Field Takeoff & Climb	C
	Communications & Light Signals	C		Soft-Field Approach & Landing	C
	Traffic Patterns	C		Short-Field Takeoff & Climb	C
	Tower Controlled Airport Operations	C		Short-Field Approach & Landing	C

**COMPLETION STANDARDS**

The student shall have performed landings at a local tower-controlled airport in an accurate and safe manner.

- **In order for this lesson to be completed, the student must have accomplished, as sole occupant of the aircraft, at least 5 hours in night VFR conditions with 10 takeoffs and 10 landings (with each landing involving a flight with a traffic pattern) at an airport with an operating control tower.**
- **The student must also have at least 10 hours of flight as sole occupant of the aircraft in any conditions.**

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-28-AWH – Aviation Weather Handbook  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 2-6: Review Segments as Needed

**STAGE I**  
**LESSON 12**  
**DUAL – NON-LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ GROUND (0.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to determine that the student is competent at the performance of VFR cross- country flights, including diversion and lost procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	2		Go-Around / Rejected Landing	2
	National Airspace System	2		Departure & Course Interception	2
	Performance & Limitations	2		Navigation Log	2
	Cross-Country Flight Planning	2		Lost Procedures	2
	VFR Flight Plans	2		Aeronautical Charts & Publications for VFR	2
	Power Setting & Mixture Control	2		Planning for Alternatives	2
	Challenge & Response Checklist Usage	2		Diversion	2
	Flow Checks	2		Radar Services	2
	PIC Brief	2		Altitude/ Route Selection	2
	Departure Briefing	2		Pilotage	2
	Division of Responsibilities	2		Dead Reckoning	2
	Sterile Cockpit	2		VOR Navigation (if equipped)	2
	Basic Attitude Instrument Flying (with V.L.D.)	2		GPS Navigation	2
	Normal Takeoff & Climb	2		Emergency Approach & Landing	2
	Normal Approach & Climb	2		Systems & Equipment Malfunctions	2
	Soft-Field Takeoff & Climb	2		Flight Deck Management	2
	Soft-Field Approach & Landing	2		Communications & Light Signals	2
	Short-Field Takeoff & Climb	2		Traffic Patterns	2
	Short-Field Approach & Landing	2		After Landing Checks	2
	Forward Slip to Landing	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

The student shall demonstrate all requested tasks and maneuvers to the Commercial Pilot Airman Certification Standards.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**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.

**Part 141 / AATD LOA Note:** The training time in an approved AATD used to meet the minimum requirements of Part 141 may not exceed 20% of the total flight training time required for the course of instruction. Training time in a BATD, an unapproved AATD, or a PCATD cannot be counted toward the total flight training time required under Part 141

DATE \_\_\_\_\_

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

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

**STAGE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**STAGE I**  
**LESSON 13**  
**DUAL - LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (2.0) _____ GROUND (1.0) _____ HOOD (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this stage check is to determine that the student can accomplish VFR cross-country flying procedures to the skill level of a commercial pilot.

**CONTENT**

Lesson Task - Oral			Lesson Task - Flight		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	2		Communications & Light Signals	2
	National Airspace System	2		Traffic Patterns	2
	Performance & Limitations	2		Pilotage/ Dead Reckoning	2
	Cross-Country Flight Planning	2		Navigation Systems	2
	Physiological Aspects of Night Flying	2		ATC Radar Services	2
	Lighting & Equipment for Night Flying	2		Diversion	2
				Flight Deck Management	2
				Normal Takeoff & Climb	2
				Normal Approach & Climb	2
				Soft-Field Takeoff & Climb	2
				Soft-Field Approach & Landing	2
				Short-Field Takeoff & Climb	2
				Short-Field Approach & Landing	2
				Go- Around / Rejected Landing	2
				Forward Slip to Landing	2
				Power Settings & Mixture Control	2
				Challenge & Response Checklist Usage	2
				Flow Checks	2
				PIC Brief	2
				Departure Briefing	2
				Division of Responsibilities	2
				Sterile Cockpit	2
				Basic Attitude Instrument Flight (with V.L.D.)	2
				After Landing Checks	2
				Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

The student will accurately plan and perform a VFR flight to another airport outside of the practice area, perform preflight procedures, airport operations, emergency operations and takeoffs, landings, and go-arounds to the standards listed in the current FAA Commercial Pilot Airman Certification Standards.

## **STAGE II**

### **STAGE OBJECTIVE**

The objective of this stage is to develop the student's ability in performing complex cross-country operations. This will include instrument operations, international operations, composite flight plans, high density traffic airport operations, and operations at higher density altitudes.

### **STAGE COMPLETION STANDARDS**

This stage will be complete when the student demonstrates the ability to perform complex cross-country operations. The student will demonstrate practical knowledge about the operation of aircraft to the commercial pilot level.

**STAGE II**  
**LESSON 14**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.2) _____ LMS CREDIT (MAX 0.4) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the instructor will re-introduce the student to the Commercial Pilot Airman Certification Standards and review VFR cross-country flight operations.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Use of the Airman Certification Standards	C		Planning for Alternatives	C
	Aircraft Equipment and Operational Requirements & Limitations	C		Lost Procedures	C
	Applicant Responsibilities	C		Diversions	C
	Instructor Responsibilities	C		Fuel Requirements	C
	Evaluator Responsibilities	C		Altitude/ Route Selection	C
	Satisfactory Performance	C		Pilotage/ Dead Reckoning	C
	Unsatisfactory Performance	C		Procurement & Use of Aviation Weather	C
	Single-Pilot Resource Management	C		Reports & Forecasts	C
	Power Setting & Mixture Control	C		Recognition of Critical Weather Situations	C
	Tower Controlled Airport Operations	C		Aeronautical Decision Making & Judgment	C
	Normal Takeoff & Climb	C		Flight Deck Management	C
	Normal Approach & Landing	C		Emergency Operations	C
	Departure & Course Interception	C		Emergency Approach & Landing	C
	Cross-Country Flight Planning	C		Systems & Equipment Malfunctions	C
	Federal Aviation Regulations	C		Emergency Descent	C
	National Airspace System	C		VOR Navigation (if equipped)	C
	Aeronautical Charts & Publications for VFR	C		GPS Navigation	C
	Performance & Limitations	C		Physiological Aspects of Night Flying	C
	VFR Flight Plan	C		Lighting & Equipment for Night Flying	C

**COMPLETION STANDARDS**

At the completion of this lesson, the student should understand the concept of the Airman Certification Standards and their significance to pilot training. The student should also be proficient in planning VFR cross-country flights.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Commercial Pilot Airman Certification Standards (ACS)
- Vol 2: Segments 3, 4

**STAGE II**  
**LESSON 15**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ HOOD (0.3) _____
GROUND (0.5) _____ LMS CREDIT (MAX 0.2) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures. The student will also review factors that affect the performance characteristics of the aircraft in preparation for complex cross-country planning.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		Variations in Climbs	2
	Normal Takeoff & Climb	2		Variations in Range	2
	Normal Approach & Landing	2		Variations in Endurance	2
	Soft-Field Takeoff & Climb	2		Variations in Gliding Performance	2
	Soft-Field Approach & Landing	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Short-Field Takeoff & Maximum	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2
	Performance Climb	2		Steep Turns	2
	Short-Field Approach & Landing	2		Maneuvering during Slow Flight	2
	Go-Around / Rejected Landing	2		Power-Off Stalls	2
	Emergency Approach & Landing	2		Power-On Stalls	2
	Communications & Light Signals	2		Accelerated Stalls	2
	Traffic Patterns	2		Spin Awareness	2

**COMPLETION STANDARDS**

- This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures without excessive deviations from the standards in the current FAA Commercial Pilot Airman Certification Standards.
- The student should demonstrate a level of proficiency that shows they can recognize deviations in their own performance and know how to correct the deviations.
- The student should demonstrate that they are ready to practice these maneuvers without the aid of an instructor.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 2: Segments 1, 2

**STAGE II**  
**LESSON 16**  
**PIC – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	C		Maneuvering during Slow Flight	C
	Normal Takeoff & Climb	C		Power-Off Stalls	C
	Normal Approach & Landing	C		Power-On Stalls	C
	Soft-Field Takeoff & Climb	C		Accelerated Stalls	C
	Soft-Field Approach & Landing	C		Spin Awareness	C
	Short-Field Takeoff & Climb	C		Communications & Light Signals	C
	Short-Field Approach & Landing	C		Traffic Patterns	C
	Go-Around / Rejected Landing	C		Steep Turns	C

**COMPLETION STANDARDS**

This lesson will be complete when the student has practiced the listed maneuvers. The student should attempt to correct any noted deviations in their performance.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 17**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (2.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to refine the student's cross-country planning procedures. This will include complex cross-country operations such as high density traffic airport operations, high density altitude airport operations, and composite flight planning.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	National Airspace System	C		Aeronautical Charts & Publications	C
	Procurement & Use of Aviation Weather	C		Pilotage / Dead Reckoning	C
	Reports & Forecasts	C		Navigation Systems	C
	Cross-Country Flight Planning	C		ATC Radar Services	C
	VFR/IFR Composite Flight Plan	C		Diversion	C
	Navigation Log	C		Emergency Operations	C
	Planning for Alternatives	C		Operations in Class B Airspace	C
	Lost Procedures	C		High Density Traffic Airports	C
	Route Selection	C		High Density Altitude Airport Operations	C
	Performance & Limitations	C		Federal Resources for Information and Rule/ Policy Interpretation	C
	Aeronautical Decision Making & Judgment	C		FAA Aeronautical Information Services vs. Commercial Charting Products	C

**COMPLETION STANDARDS**

The student shall demonstrate a working knowledge of the requirements in planning a complex cross-country flight. Through oral quizzing, the student should demonstrate the knowledge associated with the filing of composite flight plans and operations at high density traffic airports.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot's Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 18**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (4.0) _____ HOOD (2.5) _____
GROUND (0.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will become more familiar with the operation of complex cross-country operations by conducting a cross-country to an airport in a high traffic density area.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	2		Lost Procedure	2
	Cross-Country Flight Planning	2		GPS Approach	2
	Performance & Limitations	2		VOR Radial Interception & Tracking (if equipped)	2
	Preflight Inspection	2		VOR/VOR-DME Approach (if equipped)	2
	Flight Deck Management	2		Localizer Approach	2
	Engine Starting	2		ILS Approach	2
	Taxiing	2		Missed Approach Procedures	2
	Before Takeoff Check	2		Circling Approach Procedure	2
	Communications & Light Signals	2		Landing from a Straight-In or Circling Approach	2
	Traffic Patterns	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Airport, Taxiway, & Runway Signs, Markings, & Lighting	2		Emergency Descent	2
	Normal Takeoff & Climb	2		Emergency Approach & Landing	2
	Normal Approach & Landing	2		Systems & Equipment Malfunctions	2
	Pilotage & Dead Reckoning	2		Holding Procedures	2
	Navigation Systems	2		Air Traffic Control Clearances	2
	ATC Radar Services	2		Compliance with Departure, En Route, & Arrival Procedures / Clearances	2
	Diversion	2		After Landing	2
				Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

The student should demonstrate the ability to plan and perform a cross-country flight to an airport in a high traffic density area. The student should perform all maneuvers to at least the level of an instrument-rated private pilot.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- FAA-H-8083-15-IFH – Instrument Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 19**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.5) _____ LMS CREDIT (MAX 1.2) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to introduce the student to Garmin G1000 operations.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Garmin G1000	C		Flight Plan Operations	C
	Line Replaceable Units	C		Loading & Activating Instrument Procedures	C
	Primary Flight Display (PFD)	C		Flying Instrument Procedures	C
	Multi-Function Display (MFD)	C		Standby Instruments	C
	Audio Panel	C		Autopilot Operations	C
	G1000 Operational Techniques	C		Abnormal Operations	C
	Direct-To Operations	C		Emergencies	C

**COMPLETION STANDARDS**

The student shall demonstrate a working knowledge of the Garmin G1000.

**ADDITIONAL STUDY**

Garmin G1000 Cockpit Reference Guide  
 Garmin G1000 Pilot's Guide  
 Vol 5: Segments 1-8

**STAGE II**  
**LESSON 20**  
**DUAL – AATD, G1000**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (1.6) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will be introduced to VFR maneuvers and procedures in a G1000 equipped AATD.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Normal Takeoff & Climb	3		Short-Field Approach & Landing	3
	Normal Approach & Landing	3		Go-Around / Rejected Landing	3
	Soft-Field Takeoff & Climb	3		Emergency Approach & Landing	3
	Soft-Field Approach & Landing	3		Traffic Patterns	3
	Short-Field Takeoff & Climb	3		Steep Turns	3

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the VFR maneuvers and procedures in the G1000 equipped AATD. The student should demonstrate a level of proficiency that shows they can recognize deviations in their own performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Garmin G1000 Cockpit Reference Guide
- Garmin G1000 Pilot’s Guide
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 21**  
**PIC – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	C		Maneuvering during Slow Flight	C
	Normal Takeoff & Climb	C		Power-Off Stalls	C
	Normal Approach & Landing	C		Power-On Stalls	C
	Soft-Field Takeoff & Climb	C		Accelerated Stalls	C
	Soft-Field Approach & Landing	C		Spin Awareness	C
	Short-Field Takeoff & Climb	C		Communications & Light Signals	C
	Short-Field Approach & Landing	C		Traffic Patterns	C
	Go-Around / Rejected Landing	C		Steep Turns	C

**COMPLETION STANDARDS**

This lesson will be complete when the student has practiced the listed maneuvers. The student should attempt to correct any noted deviations in their performance.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 22**  
**DUAL – AATD, G1000**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (1.6) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will be introduced to IFR maneuvers and procedures in a G1000 equipped AATD.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	3		VOR/VOR-DME Approach	3
	Normal Takeoff & Climb	3		Localizer Approach	3
	Normal Approach & Landing	3		GPS Approach	3
	Basic Attitude Instrument Flight	3		ILS Approach	3
	VOR Radial Interception & Tracking	3		Missed Approach Procedures	3
	Compliance with Departure, En Route, & Arrival Procedures / Clearances	3		Landing from a Straight-In or Circling Approach	3
	Holding Procedures	3			

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the IFR maneuvers and procedures in the G1000 equipped AATD. The student should demonstrate a level of proficiency that shows they can recognize deviations in their own performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-3-AFH – Airplane Flying Handbook
- FAA-H-8083-15- IFH – Instrument Flying Handbook
- Garmin G1000 Cockpit Reference Guide
- Garmin G1000 Pilot’s Guide
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 23**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to provide the student with the opportunity to practice VFR operations to a Class B and/or High-Density Traffic Airport.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Diversion	C
	Cross-Country Flight Planning	C		Lost Procedure	C
	Performance & Limitations	C		User & Other Fees	C
	Preflight Inspection	C		VFR Operations in Class B Airspace	C
	Flight Deck Management	C		High Density Traffic Airports	C
	Engine Starting	C		Normal Takeoff & Climb	C
	Taxiing	C		Normal Approach & Landing	C
	Before Takeoff Check	C		Soft-Field Takeoff & Climb	C
	Communications & Light Signals	C		Soft-Field Approach & Landing	C
	Traffic Patterns	C		Short-Field Takeoff & Climb	C
	Pilotage / Dead Reckoning	C		Short-Field Approach & Landing	C
	Navigation Systems & ATC Radar Services				

**COMPLETION STANDARDS**

This lesson will be complete when the student has successfully operated into and out of the primary airport of Class B airspace during a VFR cross-country flight.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 24**  
**DUAL – AATD, G1000**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (1.6) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review IFR maneuvers and procedures in a G1000 equipped AATD. The student will also be introduced to climb and descend via procedures and instrument approaches with the loss of the PFD in a G1000 equipped AATD.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	3		Landing from a Straight-In or Circling Approach	3
	Normal Takeoff & Climb	3		Climb Via Departure Procedures	3
	Normal Approach & Landing	3		Descend Via Arrival Procedures	3
	Basic Attitude Instrument Flight	3		Instrument Approaches with Loss of PFD	3
	Compliance with Departure, En Route, & Arrival Procedures / Clearances	3		Abnormal & Emergency Procedures Related to the G1000	3
	GPS Approach	3			
	ILS Approach	3			
	Missed Approach Procedures	3			

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the IFR maneuvers, procedures, and emergencies in the G1000 equipped AATD. The student should demonstrate a level of proficiency that shows they can recognize deviations in their own performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-3-AFH – Airplane Flying Handbook
- FAA-H-8083-15- IFH – Instrument Flying Handbook
- Garmin G1000 Cockpit Reference Guide
- Garmin G1000 Pilot’s Guide
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 25**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (6.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to provide the student with the opportunity to practice maximum performance operations during a cross-country flight. The student should plan and conduct the flight to smaller, less frequently used airports, preferably in higher terrain.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Wind Shear Recognition & Avoidance	C
	Cross-Country Flight Planning	C		High Density Altitude Airports	C
	Performance & Limitations	C		Normal Takeoff & Climb	C
	Preflight Inspection	C		Normal Approach & Landing	C
	Flight Deck Management	C		Soft-Field Takeoff & Climb	C
	Engine Starting	C		Soft-Field Approach & Landing	C
	Taxiing	C		Short-Field Takeoff & Climb	C
	Before Takeoff Check	C		Short-Field Approach & Landing	C
	Pilotage / Dead Reckoning	C		Communications & Light Signals	C
	Navigation Systems	C		Traffic Patterns	C
	ATC Radar Services	C		After Landing	C
	Diversion	C		Parking, Securing, & Proper Tie Down	C
	Lost Procedure	C			

**COMPLETION STANDARDS**

This lesson will be complete when the student has successfully operated into and out of a smaller, less frequently used airport, preferably in higher terrain.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 26**  
**DUAL – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (4.0) _____ HOOD (2.5) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will gain additional familiarity with the operation of complex cross-country operations by conducting an IFR cross-country to an airport in a high traffic density area. The student will also become familiar with pilot not flying/pilot monitoring duties while the flight instructor flies a cross-country leg.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	3		ILS Approach	3
	National Airspace System	3		Missed Approach Procedures	3
	Performance & Limitations	3		Circling Approach Procedure	3
	Cross-Country Flight Planning	3		Landing from a Straight-In or Circling Approach	3
	Preflight Inspection	3		Basic Attitude Instrument Flight (with V.L.D.)	3
	Flight Deck Management	3		Emergency Descent	3
	Engine Starting	3		Emergency Approach & Landing	3
	Taxiing	3		Systems & Equipment Malfunctions	3
	Before Takeoff Check	3		Holding Procedures	3
	Communications & Light Signals	3		Air Traffic Control Clearances	3
	Traffic Patterns	3		Compliance with Departure, En Route, & Arrival Procedures / Clearances	3
	Airport, Taxiway, & Runway Signs, Markings, & Lighting	3		Pilot Not Flying (Pilot Monitoring) Duties	3
	Normal Takeoff & Climb	3		Challenge & Response Checklist Usage	3
	Normal Approach & Landing	3		Flow Checks	3
	Pilotage / Dead Reckoning	3		Sterile Cockpit	3
	Navigation Systems	3		PIC Brief	3
	ATC Radar Services	3		Departure Briefing	3
	VOR Radial Interception & Tracking (if equipped)	3		Division of Responsibilities	3
	VOR/VOR-DME Approach (if equipped)	3		After Landing Checks	3
	Localizer Approach	3		Parking, Securing, & Proper Tie Down	3
	GPS Approach	3			

**COMPLETION STANDARDS**

The student should demonstrate the ability to plan and perform a cross-country flight to an airport in a high traffic density area. The student should perform all maneuvers to at least the level of an instrument-rated private pilot. The student should perform Pilot Monitoring duties while the flight instructor flies a cross-country leg.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-15-IFH – Instrument Flying Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 27**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (3.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to provide the student with the opportunity to practice normal operations during an IFR cross-country flight. The student should plan and conduct the flight to multiple airports with instrument approaches and minimum leg distances of 50 nautical miles between the airports.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Normal Approach & Landing	C
	Cross-Country Flight Planning	C		Communications & Light Signals	C
	Performance & Limitations	C		VOR Radial Interception & Tracking (if equipped)	C
	Preflight Inspection	C		VOR/VOR-DME Approach (if equipped)	C
	Flight Deck Management	C		Localizer Approach	C
	Engine Starting	C		GPS Approach	C
	Taxiing	C		ILS Approach	C
	Before Takeoff Check	C		Missed Approach Procedures	C
	Pilotage / Dead Reckoning	C		Circling Approach Procedure	C
	Navigation Systems	C		Landing from a Straight-In or Circling Approach	C
	ATC Radar Services	C		Basic Attitude Instrument Flight (with V.L.D. if a safety pilot is available)	C
	Diversion	C		Compliance with Departure, En Route, & Arrival Procedures / Clearances	C
	Lost Procedure	C		Traffic Patterns	C
	Wind Shear Recognition & Avoidance	C		After Landing Checks	C
	Normal Takeoff & Climb	C		Parking, Securing, & Proper Tie Down	C

**COMPLETION STANDARDS**

This lesson will be complete when the student has successfully operated on an IFR cross-country with approaches at multiple airports. At least two of the approaches should culminate in a landing with one of those being more than 50 nautical miles from the departure airport.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-15-IFH – Instrument Flying Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 28**  
**DUAL – AATD, G1000**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (2.0) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review IFR maneuvers, procedures, and emergencies in a G1000 equipped AATD. The student will also be introduced to flight director and autopilot operations in a G1000 equipped AATD.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	3		Flight Director Operations	3
	Normal Takeoff & Climb	3		Instrument Approaches with the Flight Director	3
	Normal Approach & Landing	3		Autopilot Operations	3
	Basic Attitude Instrument Flight	3		Instrument Approaches with the Autopilot	3
	Compliance with Departure, En Route, & Arrival Procedures / Clearances	3			
	GPS Approach	3			
	ILS Approach	3			
	Missed Approach Procedures	3			
	Landing from a Straight-In or Circling Approach	3			
	Climb Via Departure Procedures	3			
	Descend Via Arrival Procedures	3			
	Instrument Approaches with Loss of PFD	3			
	Abnormal & Emergency Procedures Related to the G1000	3			

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the IFR maneuvers, procedures, and emergencies in the G1000 equipped AATD. The student should demonstrate a level of proficiency that shows they can recognize deviations in their own performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-3-AFH – Airplane Flying Handbook
- FAA-H-8083-15- IFH – Instrument Flying Handbook
- Garmin G1000 Cockpit Reference Guide
- Garmin G1000 Pilot’s Guide
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 29**  
**PIC – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (3.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to provide the student with the opportunity to practice normal operations during an IFR cross-country flight. The student should plan and conduct the flight to multiple airports with instrument approaches and minimum leg distances of 50 nautical miles between the airports.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Normal Approach & Landing	C
	Cross-Country Flight Planning	C		Communications & Light Signals	C
	Performance & Limitations	C		VOR Radial Interception & Tracking (if equipped)	C
	Preflight Inspection	C		VOR/VOR-DME Approach (if equipped)	C
	Flight Deck Management	C		Localizer Approach	C
	Engine Starting	C		GPS Approach	C
	Taxiing	C		ILS Approach	C
	Before Takeoff Check	C		Missed Approach Procedures	C
	Pilotage / Dead Reckoning	C		Circling Approach Procedure	C
	Navigation Systems	C		Landing from a Straight-In or Circling Approach	C
	ATC Radar Services	C		Basic Attitude Instrument Flight (with V.L.D. if a safety pilot is available)	C
	Diversion	C		Compliance with Departure, En Route, & Arrival Procedures / Clearances	C
	Lost Procedure	C		Traffic Patterns	C
	Wind Shear Recognition & Avoidance	C		After Landing	C
	Normal Takeoff & Climb	C		Parking, Securing, & Proper Tie Down	C

**COMPLETION STANDARDS**

This lesson will be complete when the student has successfully operated on an IFR cross-country with approaches at multiple airports. At least two of the approaches should culminate in a landing with one of those being more than 50 nautical miles from the departure airport.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-15-IFH – Instrument Flying Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 2-6: Review Segments as Needed

**STAGE II**  
**LESSON 30**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.5) _____ LMS CREDIT (MAX 0.2) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to refine the student's cross-country planning procedures and introduce international flight planning.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Required Documents for International Flights	C		User Fees	C
	International & Canadian / Bahamian Flight Plans	C		Landing Rights Airport	C
	Customs Requirements	C		Canadian / Bahamian Aviation Regulations	C
	Electronic Advance Passenger Information (eAPIS) Requirements and Use	C		ICAO & Canadian / Bahamian Airspace	C
	ADCUS	C		General Declaration	C
	Customs Fees	C		Canadian / Bahamian Charts & Publications	C
	Navigation Systems	C		ADIZ	C
	ATC Radar Services	C		Transoceanic Flight Planning	C
	Diversion	C		Transoceanic Flight Operations	C
	Lost Procedure	C			

**COMPLETION STANDARDS**

The student shall demonstrate a working knowledge of the requirements in planning a complex cross-country flight. Through oral quizzing, the student should demonstrate the knowledge associated with international operations.

**ADDITIONAL STUDY**

AIM – Aeronautical Information Manual – Chapter 5  
 Canadian/ Bahamian Aeronautical Charts  
 Vol 1: Segment 13

**STAGE II**  
**LESSON 31**  
**PIC – CROSS-COUNTRY, Intl**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (4.0) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to have the student conduct an international flight while acting as PIC.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		VOR Radial Interception & Tracking (if equipped)	C
	Cross-Country Flight Planning	C		VOR/VOR-DME Approach (if equipped)	C
	Performance & Limitations	C		Localizer Approach	C
	Preflight Inspection	C		ILS Approach	C
	Flight Deck Management	C		Missed Approach Procedures	C
	Engine Starting	C		Circling Approach Procedure	C
	Taxiing	C		Landing from a Straight-In or Circling Approach	C
	Before Takeoff Check	C		After Landing	C
	Communications & Light Signals	C		Parking, Securing, & Proper Tie Down	C
	Traffic Patterns	C		Required Documents for International Flights	C
	Airport, Taxiway, & Runway Signs, Markings, & Lighting	C		International & Canadian / Bahamian Flight Plans	C
	Normal Takeoff & Climb	C		Customs Requirements	C
	Normal Approach & Landing	C		Electronic Advance Passenger Information (eAPIS) Requirements and Use	C
	Pilotage / Dead Reckoning	C		Landing Rights Airport	C
	Navigation Systems	C		Canadian / Bahamian Aviation Regulations	C
	ATC Radar Services	C		ICAO & Canadian / Bahamian Airspace	C
	Basic Attitude Instrument Flight (with V.L.D. if a safety pilot is available)	C		General Declaration	C
	Compliance with Departure, En Route, & Arrival Procedures / Clearances	C		Canadian / Bahamian Charts & Publications	C
	GPS Approach	C			C

**COMPLETION STANDARDS**

The student should demonstrate an understanding and application of the procedures involved with international flight operations. The student should accurately plan and accomplish a flight either into or out of Canada or the Bahamas.

Note: If a border crossing is not permitted, a PIC cross-country flight to a customs airport near the border should be conducted. The student should be evaluated on the ground regarding crossing the border.

**ADDITIONAL STUDY**

AIM – Aeronautical Information Manual – Chapter 5  
 Canadian/ Bahamian Aeronautical Charts  
 Vol 1-6: Review Segments as Needed

**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.

**Part 141 / AATD LOA Note:** The training time in an approved AATD used to meet the minimum requirements of Part 141 may not exceed 20% of the total flight training time required for the course of instruction. Training time in a BATD, an unapproved AATD, or a PCATD cannot be counted toward the total flight training time required under Part 141

DATE \_\_\_\_\_

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

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

**STAGE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**COURSE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**STAGE II**  
**LESSON 32**  
**DUAL – STAGE CHECK,**  
**NON-LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (2.0) _____ GROUND (1.0) _____ HOOD (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to ensure that the student meets the objectives of Stage II. The student will be required to display knowledge of international and high-density traffic airport, and high-density altitude airport operations. The flight portion will consist of a flight to a smaller, less frequently used airport.

**CONTENT**

Lesson Task - Oral			Lesson Task - Flight		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications	2		Flight Deck Management	2
	Airworthiness Requirements	2		Communications & Light Signals	2
	Operations of Systems	2		Traffic Patterns	2
	Weather Information	2		Pilotage/ Dead Reckoning	2
	National Airspace System	2		Navigation Systems	2
	Performance & Limitations	2		ATC Radar Services	2
	Cross-Country Flight Planning	2		Diversion	2
	Physiological Aspects of Night Flying	2		Lost Procedures	2
	Lighting & Equipment for Night Flying	2		Normal Takeoff & Climb	2
	Required Documents for International Flights	2		Normal Approach & Climb	2
	Customs Requirements	2		Soft-Field Takeoff & Climb	2
	Landing Rights Airport	2		Soft-Field Approach & Landing	2
	Canadian / Bahamian Aviation Regulations	2		Short-Field Takeoff & Climb	2
	Landing Rights Airport	2		Short-Field Approach & Landing	2
	ICAO & Canadian / Bahamian Airspace	2		Go-Around / Rejected Landing	2
	ADIZ	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	High Density Traffic Airports	2		After Landing Checks	2
				Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

- The student should demonstrate knowledge of international and high-density traffic airport operations.
- In addition, the student should demonstrate, through their flight planning and performance, knowledge of operations into and out of smaller, less frequently used airports that will require maximum performance from the aircraft.
- The student should demonstrate knowledge that is equivalent to a commercial pilot and perform all requested maneuvers and tasks to the standards published in the current FAA Commercial Pilot Airman Certification Standards.

### **STAGE III**

#### **STAGE OBJECTIVE**

The objective of this stage is to introduce the student to operations in complex or technically advanced airplanes and high-performance airplanes. A technically advanced airplane must meet the requirements of 14 CFR §61.129(j) and specified components must be operational/visible.

#### **STAGE COMPLETION STANDARDS**

This stage will be complete when the student demonstrates the ability to accurately pilot a complex, technically advanced, and/or high-performance airplane to the level of a private or commercial pilot (as specified) with an instrument rating. If appropriate to the aircraft utilized, the student will receive endorsements for the operation of complex and high-performance airplanes prior to completion of this stage.

**STAGE III**  
**LESSON 33**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.5) _____ LMS CREDIT (MAX 0.6) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student shall be introduced to the systems and operations of a complex airplane, high-performance, and a technically advanced airplane. High altitude operations will also be introduced.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications for Complex and High-Performance Aircraft	C		Supplemental Oxygen	C
	Airworthiness Requirements	C		Pressurization	C
	Performance & Limitations	C		Use of a Minimum Equipment List	C
	Technically Advanced Airplane Definition	C		Weight & Balance (Shift)	C
	Technically Advanced Airplane Operations	C		Powerplant Operations	C
	Operation of Systems	C		Retractable Landing Gear Operation	C
	Constant Speed Propeller Operations	C		Traffic Patterns	C
	Preflight Inspection	C		Emergency Approach & Landing	C
	Flight Deck Management	C		Emergency Equipment & Survival Gear	C
	Emergency Descent	C		Systems & Equipment Malfunctions	

**COMPLETION STANDARDS**

The student will demonstrate a basic knowledge of complex airplanes, high-performance, and technically advanced airplanes. This should include aircraft systems, ground operations, and basic flight maneuvers. The student will also demonstrate an understanding of high-altitude operations including the use of supplemental oxygen and pressurization systems.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- FAR
- Vol 1: Segments 8-12

**STAGE III**  
**LESSON 34**  
**DUAL – AATD, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (1.5) _____ GROUND (0.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will be introduced to flight operations in a complex or a technically advanced airplane.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	3		Accelerated Stalls	3
	Engine Starting	3		Drag Demonstrations (Cx)	3
	Taxiing	3		Variations in Power Settings	3
	Before Takeoff Check	3		Constant Speed Propellers Operations (Cx)	3
	Traffic Patterns	3		Retractable Landing Gear Operations (Cx)	3
	Steep Turns	3		PFD/MFD/Autopilot Integration & Operations (TAA)	3
	Maneuvering during Slow Flight	3		Normal Takeoff & Climb	3
	Power-Off Stalls	3		Normal Approach & Landing	3
	Power-On Stalls	3		Go-Around / Rejected Landing	3

**COMPLETION STANDARDS**

This lesson is complete when the student demonstrates an increased knowledge about the operation of a complex or a technically advanced airplane.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-6: Review Segments as Needed

**STAGE III**  
**LESSON 35**  
**DUAL – AATD, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will be introduced to the basics of emergency operations and review the normal operation of a complex or a technically advanced airplane.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	3		Retractable Landing Gear Operations (Cx)	3
	Engine Starting	3		PFD/MFD/Autopilot Integration & Operations (TAA)	3
	Taxiing	3		Soft-Field Takeoff & Climb	3
	Before Takeoff Check	3		Soft-Field Approach & Landing	3
	Traffic Patterns	3		Short-Field Takeoff & Climb	3
	Normal Takeoff & Climb	3		Short-Field Approach & Landing	3
	Normal Approach & Landing	3		Emergency Descent	3
	Go-Around / Rejected Landing	3		Emergency Approach & Landing	3
	Steep Turns	3		Systems & Equipment Malfunctions	3
	Constant Speed Propellers Operations (Cx)	3		Emergency Equipment & Survival Gear	3

**COMPLETION STANDARDS**

The student shall demonstrate increased knowledge of the operation of complex or technically advanced airplane operations. This shall also include an introduction of the basic principles of emergency procedures for a complex or a technically advanced airplane.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-6: Review Segments as Needed

**STAGE III**  
**LESSON 36**  
**DUAL – LOCAL, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ HOOD (0.3) _____
GROUND (0.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to introduce the operational procedures of a complex or a technically advanced airplane.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	2		Constant Speed Propellers Operations (Cx)	3
	Engine Starting	2		Retractable Landing Gear Operations (Cx)	3
	Taxiing	3		PFD/MFD/Autopilot Integration & Operations (TAA)	3
	Before Takeoff Check	3		Basic Attitude Instrument Flight (with V.L.D.)	3
	Steep Turns	3		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	3
	Maneuvering during Slow Flight	3		Traffic Patterns	3
	Power-Off Stalls	3		Normal Takeoff & Climb	3
	Power-On Stalls	3		Normal Approach & Landing	3
	Accelerated Stalls	3		Go-Around / Rejected Landing	3
	Spin Awareness	3		After Landing	3
	Drag Demonstrations (Cx)	3		Parking, Securing, & Proper Tie Down	3
	Variations in Power Settings	3			

**COMPLETION STANDARDS**

The student should demonstrate an increased knowledge of the operation of a complex or a technically advanced airplane.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE III**  
**LESSON 37**  
**DUAL – LOCAL, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ HOOD (0.3) _____
GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to increase the student’s confidence in the operation of complex or technically advanced airplanes. This shall include operations in the slow flight regime and emergency procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	2		Supplemental Oxygen	3
	Engine Starting	2		Pressurization	3
	Taxiing	2		Emergency Descent	3
	Before Takeoff Check	2		Emergency Approach & Landing	3
	Traffic Patterns	2		Systems & Equipment Malfunctions	3
	Normal Takeoff & Climb	2		Emergency Equipment & Survival Gear	3
	Normal Approach & Landing	2		Soft-Field Takeoff & Climb	3
	Go-Around / Rejected Landing	2		Soft-Field Approach & Landing	3
	Steep Turns	2		Short-Field Takeoff & Climb	3
	Constant Speed Propellers Operations (Cx)	3		Short-Field Approach & Landing	3
	Retractable Landing Gear Operations (Cx)	3			3
	PFD/MFD/Autopilot Integration & Operations (TAA)	3			
	Basic Attitude Instrument Flight (with V.L.D.)	3			
	Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	3			
	Maneuvering during Slow Flight	3			
	Power-Off Stalls	3			
	Power-On Stalls	3			
	Accelerated Stalls	3			
	Spin Awareness	3			
	After Landing	2			
	Parking, Securing, & Proper Tie Down	2			

**COMPLETION STANDARDS**

The student should demonstrate the ability to follow proper procedures when accomplishing the desired tasks and maneuvers. An understanding of high-altitude operations, including the use of supplemental oxygen and pressurization systems, shall be demonstrated through scenarios and discussion.

- Altitude should be maintained ±150 feet, airspeed ±15 knots, and heading ±15°.
- During normal and crosswind landings, the aircraft should touchdown at or within 500 feet beyond a specified point.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE III**  
**LESSON 38**  
**DUAL – LOCAL, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.8) _____ HOOD (0.3) _____
GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to increase the student’s confidence in the operation of complex or technically advanced airplanes. This shall include operations in the slow flight regime and emergency procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Flight Deck Management	2		Maneuvering during Slow Flight	2
	Engine Starting	2		Power-Off Stalls	2
	Taxiing	2		Power-On Stalls	2
	Before Takeoff Check	2		Accelerated Stalls	2
	Traffic Patterns	2		Spin Awareness	2
	Communications & Light Signals	2		Emergency Descent	2
	Normal Takeoff & Climb	2		Emergency Approach & Landing	2
	Normal Approach & Landing	2		Systems & Equipment Malfunctions	2
	Soft-Field Takeoff & Climb	2		Emergency Equipment & Survival Gear	2
	Soft-Field Approach & Landing	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Short-Field Takeoff & Climb	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2
	Short-Field Approach & Landing	2		After Landing	2
	Go-Around / Rejected Landing	2		Parking, Securing, & Proper Tie Down	2
	Steep Turns	2			

**COMPLETION STANDARDS**

The student should demonstrate the ability to follow proper procedures when accomplishing the desired tasks and maneuvers.

- Altitude should be maintained ±150 feet, airspeed ±15 knots, and heading ±15°.
- During normal and crosswind landings, the aircraft should touchdown at or within 500 feet beyond a specified point.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE III**  
**LESSON 39**  
**DUAL – LOCAL, HP**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ HOOD (0.3) _____
GROUND (0.7) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is for the student to be introduced to the operation of a high-performance airplane in the traffic pattern environment.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	High-Performance Operations	2		Maneuvering during Slow Flight	2
	Flight Deck Management	2		Power-Off Stalls	2
	Engine Starting	2		Power-On Stalls	2
	Taxiing	2		Accelerated Stalls	2
	Before Takeoff Check	2		Spin Awareness	2
	Traffic Patterns	2		Emergency Descent	2
	Communications & Light Signals	2		Emergency Approach & Landing	2
	Normal Takeoff & Climb	2		Systems & Equipment Malfunctions	2
	Normal Approach & Landing	2		Emergency Equipment & Survival Gear	2
	Soft-Field Takeoff & Climb	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Soft-Field Approach & Landing	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2
	Short-Field Takeoff & Climb	2		After Landing	2
	Short-Field Approach & Landing	2		Parking, Securing, & Proper Tie Down	2
	Go-Around / Rejected Landing	2			

**COMPLETION STANDARDS**

The student should demonstrate the ability to operate a high-performance airplane without excessive deviations from the standards listed in the current FAA Private Pilot Airman Certification Standards.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE III**  
**LESSON 40**  
**DUAL – NON-LOCAL, HP**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ HOOD (0.3) _____
GROUND (0.7) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is for the student to gain additional practice and proficiency when operating a high-performance airplane in the traffic pattern environment. In addition, the student shall become more proficient at transitioning the aircraft from cruise flight to the traffic pattern. **Upon successful completion of this lesson the student shall receive a high-performance airplane endorsement.**

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	High-Performance Operations	2		Short-Field Takeoff & Climb	2
	Flight Deck Management	2		Short-Field Approach & Landing	2
	Engine Starting	2		Go-Around / Rejected Landing	2
	Taxiing	2		Emergency Descent	2
	Before Takeoff Check	2		Emergency Approach & Landing	2
	Traffic Patterns	2		Systems & Equipment Malfunctions	2
	Communications & Light Signals	2		Emergency Equipment & Survival Gear	2
	Normal Takeoff & Climb	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Normal Approach & Landing	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2
	Soft-Field Takeoff & Climb	2		After Landing Checks	2
	Soft-Field Approach & Landing	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

- The student should demonstrate the ability to operate a high-performance airplane without more than minor deviations from the standards listed in the current FAA Private Pilot Airman Certification Standards.
- The student should also demonstrate the ability to apply proper procedures and techniques in transitioning the aircraft from cruise flight to the traffic pattern when proceeding from one airport to another.

**Upon successful completion of this lesson the student shall receive a high-performance airplane endorsement.**

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE III**  
**LESSON 41**  
**DUAL – AATD, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson the student will be introduced to instrument approach procedures in a complex or a technically advanced airplane.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Basic Attitude Instrument Flight	3		GPS Approach	3
	VOR Radial Interception & Tracking	3		ILS Approach	3
	Holding Procedures	3		Localizer Approach	3
	Air Traffic Control Clearances	3		Radar Approach Procedure	3
	Compliance with Departure, En Route, & Arrival Procedures / Clearances	3		Missed Approach Procedures	3
	ICAO IFR Flight Plan	3		Circling Approach Procedure	3
	ATC Communications	3		Landing from a Straight-In or Circling Approach	3
	VOR/VOR-DME Approach	3		Loss of Gyro Attitude and/or Heading Indicators	3

**COMPLETION STANDARDS**

The student should demonstrate close to instrument pilot proficiency in each of the procedures reviewed.

- Altitude should be maintained  $\pm 100$  feet and airspeed  $\pm 10$  knots.
- During the VOR/VOR-DME, Localizer, and GPS approaches, the final approach course should be maintained with less than a three-quarter- scale deflection.
- During the ILS approach, the final approach course and glide slope should be maintained with less than a three-quarter-scale deflection.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-15- IFH – Instrument Flying Handbook  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-6: Review Segments as Needed

**STAGE III**  
**LESSON 42**  
**DUAL – LOCAL, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (2.0) _____ HOOD (1.4) _____
GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will practice instrument approach procedures in a complex or a technically advanced airplane.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Basic Attitude Instrument Flight (with V.L.D.)	2		GPS Approach	2
	Holding Procedures	2		ILS Approach	2
	Air Traffic Control Clearances	2		Localizer Approach	2
	Compliance with Departure, En Route, & Arrival Procedures/ Clearances	2		Radar Approach Procedure	2
	ICAO IFR Flight Plan	2		Missed Approach Procedures	2
	ATC Communications	2		Circling Approach Procedure	2
	VOR Radial Interception & Tracking	2		Landing from a Straight-In or Circling Approach	2
	VOR/VOR-DME Approach	2		Loss of Gyro Attitude and/or Heading Indicators	2

**COMPLETION STANDARDS**

- Altitude should be maintained ±100 feet and airspeed ±10 knots.
- During the VOR/VOR-DME, Localizer, and GPS approaches, the final approach course should be maintained with less than a three-quarter- scale deflection.
- During the ILS approach, the final approach course and glide slope should be maintained with less than a three-quarter-scale deflection.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-15- IFH – Instrument Flying Handbook  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE III**  
**LESSON 43**  
**DUAL – LOCAL, Cx/ TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.7) _____ HOOD (0.3) _____
GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to determine that the student can pilot a complex or a technically advanced airplane as pilot-in-command. **Upon successful completion of this lesson, the student shall receive a complex airplane endorsement if operations were completed in a complex airplane.**

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications	2		Go-Around / Rejected Landing	2
	Airworthiness Requirements	2		Communications & Light Signals	2
	Performance & Limitations	2		Traffic Patterns	2
	Operation of Systems	2		Supplemental Oxygen	2
	Preflight Inspection	2		Pressurization	2
	Flight Deck Management	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Engine Starting	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2
	Taxiing	2		Emergency Descent	2
	Before Takeoff Check	2		Emergency Approach & Landing	2
	Normal Takeoff & Climb	2		Systems & Equipment Malfunctions	2
	Soft-Field Takeoff & Climb	2		Emergency Equipment & Survival Gear	2
	Soft-Field Approach & Landing	2		After Landing Checks	2
	Short-Field Takeoff & Climb	2		Parking, Securing, & Proper Tie Down	2
	Short-Field Approach & Landing	2			

**COMPLETION STANDARDS**

This lesson will be complete when the student demonstrates the ability to fly a complex or a technically advanced airplane to another airport and return while accurately accomplishing landings and emergency procedures. The student should accomplish all maneuvers to the standards listed in the current FAA Commercial Pilot Airman Certification Standards.

**Upon successful completion of this lesson, the student shall receive a complex airplane endorsement if operations were completed in a complex airplane.**

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-15- IFH – Instrument Flying Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**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.

**Part 141 / AATD LOA Note:** The training time in an approved AATD used to meet the minimum requirements of Part 141 may not exceed 20% of the total flight training time required for the course of instruction. Training time in a BATD, an unapproved AATD, or a PCATD cannot be counted toward the total flight training time required under Part 141

DATE \_\_\_\_\_

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

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

**STAGE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**COURSE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**STAGE III**  
**LESSON 44**  
**DUAL – STAGE CHECK,**  
**LOCAL, Cx/TAA**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ GROUND (1.0) _____ HOOD (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to determine that the student can pilot a complex or a technically advanced airplane and meet the objectives of Stage III.

**CONTENT**

Lesson Task - Oral			Lesson Task - Flight		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications	2		Preflight Inspection	2
	Airworthiness Requirements	2		Flight Deck Management	2
	Operations of Systems	2		Engine Starting	2
	Weather Information	2		Taxiing	2
	National Airspace System	2		Before Takeoff Check	2
	Performance & Limitations	2		Communications & Light Signals	2
	Supplemental Oxygen	2		Traffic Patterns	2
	Pressurization	2		Pilotage/ Dead Reckoning	2
				Navigation Systems	2
				ATC Radar Services	2
				Diversion	2
				Lost Procedures	2
				Normal Takeoff & Climb	2
				Normal Approach & Climb	2
				Soft-Field Takeoff & Climb	2
				Soft-Field Approach & Landing	2
				Short-Field Takeoff & Climb	2
				Short-Field Approach & Landing	2
				Go-Around / Rejected Landing	2
				Basic Attitude Instrument Flight (with V.L.D.)	2
				After Landing Checks	2
				Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

- The student should demonstrate knowledge of complex or technically advanced airplane operations.
- The student should demonstrate knowledge that is equivalent to a commercial pilot and perform all requested maneuvers and tasks to the standards published in the current FAA Commercial Pilot Airman Certification Standards.

#### **STAGE IV**

##### **STAGE OBJECTIVE**

The objective of this stage is to teach the student about obtaining the maximum performance from an aircraft. The student will be introduced to the commercial maneuvers that require maximum performance from the aircraft and the highest levels of precision from the pilot. The student's skill level will be developed to that of a commercial pilot in all areas of operation.

##### **STAGE COMPLETION STANDARDS**

This stage will be complete when the student demonstrates the ability to perform all the tasks and maneuvers of a commercial pilot to the standards listed in the current FAA Commercial Airman Certification Standards. In addition, the student will demonstrate a mastery of basic aerodynamics and its application in various flight maneuvers.

**STAGE IV**  
**LESSON 45**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (2.0) _____ LMS CREDIT (MAX 0.9) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the instructor will introduce aerodynamic concepts associated with obtaining the maximum performance of the aircraft. This shall include a thorough briefing on the four forces of flight and their relationship during various maneuvers. In addition to this, the instructor will also introduce chandelles, lazy eights, accelerated stalls, and steep spiral.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Four Forces of Flight (Lift, Drag, Weight, Thrust)	C		Steep Turns	C
	Four Fundamentals of Flight (Straight & Level, Turns, Climbs, Descents)	C		Diving Spiral	C
	Rate of Turn	C		Emergency Descent	C
	Radius of Turn	C		Maneuvering during Slow Flight	C
	Left Turning Tendencies (Torque Effect, P-Factor, Spiraling Slipstream, Gyroscopic Precession)	C		Chandelles	C
	Aircraft Stability	C		Lazy Eights	C
	Dynamic vs Static Stability	C		Accelerated Stalls	C
	Aircraft Maneuverability	C		Steep Spiral	C
	Load Factor	C			
	Maneuvering Speed	C			

**COMPLETION STANDARDS**

This lesson shall be complete when the student demonstrates to the instructor a solid comprehension of the aerodynamics involved in the various flight maneuvers through oral quizzing. In addition, the student should demonstrate knowledge of how to perform chandelles, lazy eights, accelerated stalls, and steep spiral by demonstrating the maneuver using a model aircraft.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1: Segments 1, 2, 4
- Vol 4: Segments 1-5

**STAGE IV**  
**LESSON 46**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (2.0) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to introduce the student to the performance envelope of the training aircraft and how to obtain maximum performance from the aircraft. In addition, the student shall be introduced to chandelles and steep spiral.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Steep Turns	2		Aircraft Stability (Yaw)	2
	Normal Takeoff & Climb	2		Aircraft Stability (Pitch)	2
	Normal Approach & Landing	2		Aircraft Stability (Roll)	2
	Emergency Descent	2		Falling Leaf	5
	Maneuvering during Slow Flight	2		Chandelles	5
	Power-Off Stalls (20° Bank)	2		Steep Spiral	5
	Power-On Stalls (20° Bank)	2		Accelerated Stalls	3

**COMPLETION STANDARDS**

The student shall demonstrate the ability to accurately maneuver the aircraft. This shall include proper initiation and recovery procedures from stalls, proper procedures for performing emergency descents and performing steep turns. In addition, the student shall demonstrate the proper procedure in the performance of a steep spiral and chandelle and maintain minimum controllable airspeed without stalling the aircraft.

- Altitude shall be maintained ±100 feet.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 47**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will gain further practice and proficiency at the maneuvering of the aircraft near the limits of its flight envelope. The student will also be introduced to lazy eights.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Steep Turns	2		Lazy Eights	5
	Chandelles	4			
	Steep Spiral	4			
	Normal Takeoff & Climb	2			
	Normal Approach & Landing	2			
	Emergency Descent	2			
	Maneuvering during Slow Flight	2			
	Power-Off Stalls (20° Bank)	2			
	Power-On Stalls (20° Bank)	2			
	Accelerated Stalls	2			

**COMPLETION STANDARDS**

The student shall demonstrate the ability to accurately maneuver the aircraft. This shall include proper initiation and recovery procedures from stalls, proper procedures for performing emergency descents and performing steep turns. In addition, the student shall demonstrate the proper procedure in the performance of a steep spiral and chandelle and maintain minimum controllable airspeed without stalling the aircraft.

- Altitude shall be maintained ±100 feet.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 48**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.2) _____ LMS CREDIT (MAX 0.2) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to review and introduce the student to the procedures and factors associated with performing takeoffs and landings while obtaining maximum performance from the aircraft. The student will also be introduced to the gliding characteristics of the training airplane and how to effectively plan and compensate for the various conditions that can affect an aircraft in gliding flight. In addition, the student will be introduced to the procedures to properly perform eights on pylons and power-off accuracy approaches.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Eights on Pylons	C		Factors Affecting Landing	C
	Determining Wind Direction & Speed	C		Altitude	C
	Effect of Wind	C		Temperature	C
	Ground Effect	C		Approach Speed	C
	Factors Affecting Takeoff	C		Runway Surface	C
	Altitude	C		Weight	C
	Temperature	C		Wind	C
	Lift-Off Speed	C		Runway Slope	C
	Runway Surface	C		Pilot Technique	C
	Weight	C		Approach Angle	C
	Wind	C		Wind Recognition	C
	Runway Slope	C		Best Glide	C
	Pilot Technique	C		Slips	C
	Soft-Field Takeoff & Climb	C		Hydroplaning	C
	Short-Field Takeoff & Climb	C		Minimum Sink	C
				Turbulent Air Approach & Landing	C
				Power-Off Accuracy Approaches	C
				90° Power-Off Approach	C
				180° Power-Off Approach	C
				360° Power-Off Approach	C
				Soft-Field Approach & Landing	C
				Short-Field Approach & Landing	C
				Go-Around / Rejected Landing	C

**COMPLETION STANDARDS**

The student will have a fundamental knowledge of the factors that affect the performance of gliding flight, takeoffs, and landings. This shall include the procedures required to acquire the maximum performance from the aircraft. The student will also be able to describe the procedures required to perform power-off accuracy approaches and eights on pylons and be able to explain the variation in pivotal altitude with changes in groundspeed.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1: Segments 3, 6

**STAGE IV**  
**LESSON 49**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will apply their knowledge associated with the maximum performance of the aircraft. Eights on pylons, variations of landings/ approaches will be introduced.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Soft-Field Takeoff & Climb	2		Eights on Pylons	5
	Soft-Field Approach & Landing	4		Turbulent Air Approach & Landing	5
	Short-Field Takeoff & Climb	4		90° Power-Off Approach	5
	Short-Field Approach & Landing	2		180° Power-Off Approach	5
	Go-Around / Rejected Landing	2		360° Power-Off Approach	5
	Emergency Approach & Landing	2			
	Aborted Takeoff	2			
	Slips	2			
	No Flap Landing	2			

**COMPLETION STANDARDS**

The student will be able to explain what runway conditions necessitate the use of short and soft-field takeoff and landing techniques and be able to apply these techniques. The student will also be able to accurately plan a glide to touchdown. In addition, the student shall be able to demonstrate the proper technique for entering and performing eights on pylons.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 50**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will become more familiar with the performance characteristics of the training aircraft and will gain further proficiency in the performance of takeoffs, landings and some of the maneuvers required for the commercial pilot certificate.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Soft-Field Takeoff & Climb	2		Power-Off Stalls (20° Bank)	2
	Soft-Field Approach & Landing	2		Power-On Stalls (20° Bank)	2
	Short-Field Takeoff & Climb	2		Accelerated Stalls	3
	Short-Field Approach & Landing	2		Emergency Approach & Landing	2
	Go-Around / Rejected Landing	2		Aborted Takeoff	2
	Steep Turns	2		Slips	2
	Chandelles	3		No Flap Landing	2
	Lazy Eights	3		Turbulent Air Approach & Landing	4
	Steep Spiral	3		90° Power-Off Approach	4
	Maneuvering during Slow Flight	3		180° Power-Off Approach	4
	Eights on Pylons	4		360° Power-Off Approach	4

**COMPLETION STANDARDS**

The student will be able to explain what runway conditions necessitate the use of short-field 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, although proficiency may not be at commercial pilot level.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 51**  
**PIC – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

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

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Go-Around / Rejected Landing	C		Power-Off Stalls	C
	Short-Field Takeoff & Climb	C		Power-On Stalls	C
	Soft-Field Takeoff & Climb	C		Accelerated Stalls	C
	Short-Field Approach & Landing	C		Steep Turns	C
	Soft-Field Approach & Landing	C		Chandelles	C
	Eights on Pylons	C		Lazy Eights	C
	Power-Off Accuracy Approaches	C		Steep Spiral	C
	Maneuvering during Slow Flight	C			

**COMPLETION STANDARDS**

This lesson will be complete when the student has accomplished the maneuvers assigned by the flight instructor. The student should attempt to complete slow flight, stalls, steep turns, takeoffs, and landings to the standards of a commercial pilot. The student should note improvement in the performance of the other maneuvers.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 52**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.2) _____ LMS CREDIT (MAX 0.2) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student will be introduced to the stall and spin characteristics that are prevalent in most aircraft and the factors associated with these characteristics.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Aerodynamic Forces	C		Inertial Forces	C
	Gyroscopic Forces	C		Mechanical Forces	C
	Aircraft Certification	C		Aerobatic Flight	C
	Parachutes	C		Entering a Spin	C
	Diving Spiral	C		Spin Recovery Technique	C
	Spin Characteristics	C		Load Factors (Limit & Ultimate)	C
	Visual Perspectives	C		Cross-Controlled Stall	C
	Stall Recognition	C		Accelerated Stall	C
	Weight & Balance	C		Fully Developed Spin	C
	Secondary Stall	C		Flat Spin	C
	Elevator Trim Stall	C		Instrument Indications in a Spin	C
	Incipient Spin	C			
	Inverted Spin	C			
	Load Factor Chart (VG Diagram)	C			

**COMPLETION STANDARDS**

This lesson is complete when the student demonstrates spin awareness appropriate for a commercial pilot. The student shall demonstrate their knowledge through oral quizzing on the situations where a spin is most likely to occur, the aerodynamic conditions required for a spin and the recovery technique from a spin.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1: Segment 7

**STAGE IV**  
**LESSON 53**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ HOOD (0.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will reinforce practical spin awareness.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Maneuvering during Slow Flight	2		Secondary Stall	5
	Power-Off Stalls	2		Elevator Trim Stall	5
	Power-On Stalls	2		Cross-Controlled Stall	5
	Accelerated Stalls	2		Stalls during Go-Around / Rejected Landing (demonstrated at a safe altitude)	5
	Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2		Diving Spiral	5
				Diving Spiral Recovery	5
				Spin Awareness	2

**COMPLETION STANDARDS**

The student should demonstrate greater familiarity with the flight situations where a stall and spin may occur. The student should demonstrate proper awareness of spins and the recovery from the stalls that could likely develop into a spin. In addition, the student should be able recognize the difference between a diving spiral and a spin, applying the proper recovery technique for each.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 54**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ HOOD (0.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will reinforce practical spin awareness.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Maneuvering during Slow Flight	2		Secondary Stall	4
	Power-Off Stalls	2		Elevator Trim Stall	4
	Power-On Stalls	2		Cross-Controlled Stall	4
	Accelerated Stalls	2		Stalls during Go-Around / Rejected Landing (demonstrated at a safe altitude)	2
	Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2		Diving Spiral	4
	Spin Awareness	2		Diving Spiral Recovery	4

**COMPLETION STANDARDS**

The student should demonstrate greater familiarity with flight situations where a stall and spin may occur. The student should demonstrate proper awareness of spins and the recovery from the stalls that could likely develop into a spin. In addition, the student should be able recognize the difference between a diving spiral and a spin, applying the proper recovery technique for each.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 55**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ HOOD (0.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures. The student will also review factors that affect the performance characteristics of the aircraft.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		Steep Spiral	3
	Communications & Light Signals	2		Emergency Approach & Landing	2
	Traffic Patterns	2		Power-Off Accuracy Approaches	2
	Normal Takeoff & Climb	2		Secondary Stall	2
	Normal Approach & Landing	2		Elevator Trim Stall	2
	Soft-Field Takeoff & Climb	2		Aborted Takeoff	2
	Soft-Field Approach & Landing	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel	2
	Short-Field Takeoff & Climb	2		Eights on Pylons	3
	Short-Field Approach & Landing	2		Maneuvering during Slow Flight	2
	Go-Around / Rejected Landing	2		Power-Off Stalls	2
	Steep Turns	2		Power-On Stalls	2
	Chandelles	3		Accelerated Stalls	2
	Lazy Eights	3		Spin Awareness	2

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated commercial pilot maneuvers and procedures without excessive deviations from the standards in the current FAA Commercial Pilot Airman Certification Standards. The student shall demonstrate takeoffs, landings, and go-arounds to the standards listed in the current FAA Commercial Pilot Airman Certification Standards. In addition, the student should demonstrate the ability to perform the listed additional tasks & maneuvers.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 56**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ HOOD (0.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures. The student will also review factors that affect the performance characteristics of the aircraft.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		Steep Spiral	2
	Communications & Light Signals	2		Emergency Approach & Landing	2
	Traffic Patterns	2		Power-Off Accuracy Approaches	2
	Normal Takeoff & Climb	2		Secondary Stall	2
	Normal Approach & Landing	2		Elevator Trim Stall	2
	Soft-Field Takeoff & Climb	2		Aborted Takeoff	2
	Soft-Field Approach & Landing	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel	2
	Short-Field Takeoff & Climb	2		Eights on Pylons	2
	Short-Field Approach & Landing	2		Maneuvering during Slow Flight	2
	Go-Around / Rejected Landing	2		Power-Off Stalls	2
	Steep Turns	2		Power-On Stalls	2
	Chandelles	2		Accelerated Stalls	2
	Lazy Eights	2		Spin Awareness	2

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated commercial pilot maneuvers and procedures without excessive deviations from the standards in the current FAA Commercial Pilot Airman Certification Standards. The student shall demonstrate takeoffs, landings, and go-arounds to the standards listed in the current FAA Commercial Pilot Airman Certification Standards. In addition, the student should demonstrate the ability to perform the listed additional tasks & maneuvers.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 57**  
**DUAL – GROUND**

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

**LESSON OBJECTIVE**

The objective of this lesson is to review aeronautical knowledge areas in preparation for the end-of-course test and/or Commercial Pilot Certificate Practical Test.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Commercial Pilot Privileges & Limitations	C		National Airspace System	C
	Basic Aerodynamics	C		Principles of Flight	C
	Recognition of Critical Weather Situations	C		Wind Shear Recognition & Avoidance	C
	Use of Aeronautical Weather Reports & Forecasts	C		Weight & Balance	C
	Performance & Limitations	C		Use of Performance Charts	C
	Magnetic Compass & Errors	C		Aeronautical Charts	C
	Dead Reckoning	C		Pilotage / Dead Reckoning	C
	Aeronautical Decision Making & Judgment	C		Use of Air Navigation Facilities	C
	Night Operations	C		Aircraft Systems	C
	High-Altitude Operations	C		Emergency Maneuvers & Procedures	C
	Accident Reporting Requirements of the NTSB	C			C

**COMPLETION STANDARDS**

The student should demonstrate commercial pilot aeronautical knowledge of listed subjects.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- 49 CFR Part 830
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 58**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		180° Power-Off Approach	2
	Preflight Inspection	2		Emergency Descent	2
	Flight Deck Management	2		Emergency Approach & Landing	2
	Engine Starting	2		Systems & Equipment Malfunctions	2
	Taxiing	2		Steep Turns	2
	Before Takeoff Check	2		Chandelles	2
	Runway Incursion Avoidance	2		Lazy Eights	2
	Traffic Patterns	2		Steep Spiral	2
	Communications & Light Signals	2		Eights on Pylons	2
	Normal Takeoff & Climb	2		Maneuvering during Slow Flight	2
	Normal Approach & Landing	2		Power-Off Stalls	2
	Soft-Field Takeoff & Climb	2		Power-On Stalls	2
	Soft-Field Approach & Landing	2		Accelerated Stalls	2
	Short-Field Takeoff & Climb	2		Spin Awareness	2
	Short-Field Approach & Landing	2		After Landing Checks	2
	Go-Around / Rejected Landing	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures without excessive deviations from the standards in the current FAA Commercial Pilot Airman Certification Standards. The student should demonstrate a level of proficiency that shows they can recognize deviations in their performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 59**  
**PIC – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	C		Communications & Light Signals	C
	Preflight Inspection	C		Traffic Patterns	C
	Flight Deck Management	C		Maneuvering during Slow Flight	C
	Engine Starting	C		Power-Off Stalls	C
	Taxiing	C		Power-On Stalls	C
	Before Takeoff Check	C		Accelerated Stalls	C
	Runway Incursion Avoidance	C		Spin Awareness	C
	Normal Takeoff & Climb	C		Steep Turns	C
	Normal Approach & Landing	C		Chandelles	C
	Soft-Field Takeoff & Climb	C		Lazy Eights	C
	Soft-Field Approach & Landing	C		Steep Spiral	C
	Short-Field Takeoff & Climb	C		Eights on Pylons	C
	Short-Field Approach & Landing	C		After Landing Checks	C
	Go-Around / Rejected Landing	C		Parking, Securing, & Proper Tie Down	C
	180° Power-Off Approach	C			

**COMPLETION STANDARDS**

This lesson will be complete when the student has practiced the listed maneuvers. The student should attempt to correct any noted deviations in their performance.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 60**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		180° Power-Off Approach	2
	Preflight Inspection	2		Emergency Descent	2
	Flight Deck Management	2		Emergency Approach & Landing	2
	Engine Starting	2		Systems & Equipment Malfunctions	2
	Taxiing	2		Steep Turns	2
	Before Takeoff Check	2		Chandelles	2
	Runway Incursion Avoidance	2		Lazy Eights	2
	Traffic Patterns	2		Steep Spiral	2
	Communications & Light Signals	2		Eights on Pylons	2
	Normal Takeoff & Climb	2		Maneuvering during Slow Flight	2
	Normal Approach & Landing	2		Power-Off Stalls	2
	Soft-Field Takeoff & Climb	2		Power-On Stalls	2
	Soft-Field Approach & Landing	2		Accelerated Stalls	2
	Short-Field Takeoff & Climb	2		Spin Awareness	2
	Short-Field Approach & Landing	2		After Landing Checks	2
	Go-Around / Rejected Landing	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures without excessive deviations from the standards in the current FAA Commercial Pilot Airman Certification Standards. The student should demonstrate a level of proficiency that shows they can recognize deviations in their performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE II**  
**LESSON 61**  
**DUAL – CROSS-COUNTRY**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.8) _____ HOOD (0.5) _____ GROUND (0.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to provide the student with a review of VFR cross-country procedures, specifically diversions and lost procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Weather Information	C		Lost Procedures	C
	National Airspace System	C		Aeronautical Charts & Publications for VFR	C
	Performance & Limitations	C		Planning for Alternatives	C
	Cross-Country Flight Planning	C		Diversion	C
	Flight Deck Management	C		ATC Radar Services	C
	Radio Communications	C		Altitude / Route Selection	C
	ATC Light Signals	C		Pilotage / Dead Reckoning	C
	Traffic Patterns	C		Dead Reckoning	C
	Normal Takeoff & Climb	C		VOR Navigation (if equipped)	C
	Normal Approach & Landing	C		GPS Navigation	C
	Soft-Field Takeoff & Climb	C		Other Navigation Systems	C
	Soft-Field Approach & Landing	C		Emergency Approach & Landing	C
	Short-Field Takeoff & Climb	C		Systems & Equipment Malfunctions	C
	Short-Field Approach & Landing	C		VFR Flight Plans	C
	Forward Slips to a Landing	C		Power Setting & Mixture Control	C
	Go-Around / Rejected Landing	C		Basic Attitude Instrument Flight (with V.L.D.)	C
	Departure & Course Interception	C		After Landing Checks	C
	Navigation Log	C		Parking, Securing, & Proper Tie Down	C

**COMPLETION STANDARDS**

This lesson will be complete when the student has accurately planned a VFR cross-country. The student should demonstrate cross-country and navigation procedures to the standards listed in the current FAA Commercial Pilot Airman Certification Standards.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 62**  
**DUAL – GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
GROUND (1.2) _____ LMS CREDIT (MAX 0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The objective of this lesson is to review aeronautical knowledge areas in preparation for the end-of-course test and/or Commercial Pilot Certificate Practical Test.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications	C		Weather Information	C
	Airworthiness Requirements	C		Performance & Limitations	C
	National Airspace System	C		Human Factors	C
	Operation of Systems	C		Lighting & Equipment for Night Flying	C
	Physiological Aspects of Night Flying	C		Pressurization	C
	ATC Light Signals	C		Supplemental Oxygen	C
	Emergency Equipment & Survival Gear	C			C

**COMPLETION STANDARDS**

The student should demonstrate commercial pilot aeronautical knowledge of listed subjects.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 5: Segments 1-9

**STAGE IV**  
**LESSON 63**  
**PIC – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	C		Communications & Light Signals	C
	Preflight Inspection	C		Traffic Patterns	C
	Flight Deck Management	C		Maneuvering during Slow Flight	C
	Engine Starting	C		Power-Off Stalls	C
	Taxiing	C		Power-On Stalls	C
	Before Takeoff Check	C		Accelerated Stalls	C
	Runway Incursion Avoidance	C		Spin Awareness	C
	Normal Takeoff & Climb	C		Steep Turns	C
	Normal Approach & Landing	C		Chandelles	C
	Soft-Field Takeoff & Climb	C		Lazy Eights	C
	Soft-Field Approach & Landing	C		Steep Spiral	C
	Short-Field Takeoff & Climb	C		Eights on Pylons	C
	Short-Field Approach & Landing	C		After Landing Checks	C
	Go-Around / Rejected Landing	C		Parking, Securing, & Proper Tie Down	C
	180° Power-Off Approach	C			

**COMPLETION STANDARDS**

This lesson will be complete when the student has practiced the listed maneuvers. The student should attempt to correct any noted deviations in their performance.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 64**  
**PIC – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME (1.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	C		Communications & Light Signals	C
	Preflight Inspection	C		Traffic Patterns	C
	Flight Deck Management	C		Maneuvering during Slow Flight	C
	Engine Starting	C		Power-Off Stalls	C
	Taxiing	C		Power-On Stalls	C
	Before Takeoff Check	C		Accelerated Stalls	C
	Runway Incursion Avoidance	C		Spin Awareness	C
	Normal Takeoff & Climb	C		Steep Turns	C
	Normal Approach & Landing	C		Chandelles	C
	Soft-Field Takeoff & Climb	C		Lazy Eights	C
	Soft-Field Approach & Landing	C		Steep Spiral	C
	Short-Field Takeoff & Climb	C		Eights on Pylons	C
	Short-Field Approach & Landing	C		After Landing Checks	C
	Go-Around / Rejected Landing	C		Parking, Securing, & Proper Tie Down	C
	180° Power-Off Approach	C			

**COMPLETION STANDARDS**

This lesson will be complete when the student has practiced the listed maneuvers. The student should attempt to correct any noted deviations in their performance.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 65**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review commercial pilot maneuvers and procedures and will work on correcting any deviations in their performance.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		180° Power-Off Approach	2
	Preflight Inspection	2		Emergency Descent	2
	Flight Deck Management	2		Emergency Approach & Landing	2
	Engine Starting	2		Systems & Equipment Malfunctions	2
	Taxiing	2		Steep Turns	2
	Before Takeoff Check	2		Chandelles	2
	Runway Incursion Avoidance	2		Lazy Eights	2
	Traffic Patterns	2		Steep Spiral	2
	Communications & Light Signals	2		Eights on Pylons	2
	Normal Takeoff & Climb	2		Maneuvering during Slow Flight	2
	Normal Approach & Landing	2		Power-Off Stalls	2
	Soft-Field Takeoff & Climb	2		Power-On Stalls	2
	Soft-Field Approach & Landing	2		Accelerated Stalls	2
	Short-Field Takeoff & Climb	2		Spin Awareness	2
	Short-Field Approach & Landing	2		After Landing Checks	2
	Go-Around / Rejected Landing	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures without excessive deviations from the standards in the current FAA Commercial Pilot Airman Certification Standards. The student should demonstrate a level of proficiency that shows they can recognize deviations in their performance and know how to correct the deviations.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 66**  
**DUAL – NON-LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ HOOD (0.3) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review landings and emergency procedures while flying to and returning from another airport.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications	2		Short-Field Approach & Landing	2
	Airworthiness Requirements	2		Go-Around / Rejected Landing	2
	Performance & Limitations	2		180° Power-Off Approach	2
	Operation of Systems	2		Supplemental Oxygen	2
	Preflight Inspection	2		Pressurization	2
	Flight Deck Management	2		Communications & Light Signals	2
	Engine Starting	2		Traffic Patterns	2
	Taxiing	2		Emergency Descent	2
	Before Takeoff Check	2		Emergency Approach & Landing	2
	Runway Incursion Avoidance	2		Systems & Equipment Malfunctions	2
	Normal Takeoff & Climb	2		Emergency Equipment & Survival Gear	2
	Normal Approach & Landing	2		Basic Attitude Instrument Flight (with V.L.D.)	2
	Soft-Field Takeoff & Climb	2		Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)	2
	Soft-Field Approach & Landing	2		After Landing Checks	2
	Short-Field Takeoff & Climb	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

This lesson will be complete when the student demonstrates the ability to fly to another airport and return while accurately accomplishing landings and emergency procedures. The student should accomplish all maneuvers with only minor deviations to the standards listed in the current FAA Commercial Pilot Airman Certification Standards.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review Segments as Needed

**STAGE IV**  
**LESSON 67**  
**DUAL – GROUND**  
**KNOWLEDGE TEST REVIEW**

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

**LESSON OBJECTIVE**

The objective of this lesson is to review and evaluate the aeronautical knowledge areas from this TCO in preparation for the end-of-course test and/or Commercial Pilot Certificate Practical Test. Knowledge areas missed on the Commercial Pilot Knowledge Test must also be reviewed.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Pilot Qualifications	C		Recognition of Critical Weather Situations	C
	Commercial Pilot Privileges & Limitations	C		Use of Aeronautical Weather & Forecasts	C
	Airworthiness Requirements	C		Wind Shear Recognition & Avoidance	C
	National Airspace System	C		Operation of Systems	C
	Cross-Country Flight Planning	C		Magnetic Compass & Errors	C
	Aeronautical Charts	C		Pressurization	C
	ATC Light Signals	C		Supplemental Oxygen	C
	Emergency Equipment & Survival Gear	C		High Altitude Operations	C
	Accident Reporting Requirements of the NTSB	C		Night Operations	C
	Performance & Limitations	C		Physiological Aspects of Night Flying	C
	Weight & Balance	C		Lighting & Equipment for Night Flying	C
	Use of Performance Charts	C		Aeronautical Decision Making & Judgment	C
	Basic Aerodynamics	C		Single-Pilot Resource Management	C
	Principles of Flight	C		Human Factors	C
	Weather Information	C		Review of Deficient Areas of the FAA Commercial Pilot Knowledge Test	C

**COMPLETION STANDARDS**

The student should demonstrate commercial pilot aeronautical knowledge of listed subjects.

**ADDITIONAL STUDY**

- FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge
- FAA-H-8083-28-AWH – Aviation Weather Handbook
- FAA-H-8083-3-AFH – Airplane Flying Handbook
- Vol 1-7: Review segments as needed

**STAGE IV**  
**LESSON 67a**  
**DUAL – LOCAL**  
**END OF STAGE**  
**REVIEW**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.8) _____ GROUND (1.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

The student shall demonstrate the knowledge and skill of a Commercial Pilot with an instructor who is not their normally assigned instructor. The instructor will maintain an evaluator role throughout the entire review similar to that of an examiner or an approved end-of-course test check instructor.

**CONTENT**

<b>Lesson Task - Oral</b>		<b>Lesson Task - Flight</b>	
<u>Task Grade</u>	<u>Completion Standard</u>	<u>Task Grade</u>	<u>Completion Standard</u>
Pilot Qualifications	2	Preflight Inspection	2
Airworthiness Requirements	2	Flight Deck Management	2
Weather Information	2	Engine Starting	2
Cross-Country Flight Planning	2	Taxiing	2
National Airspace System	2	Before Takeoff Check	2
Performance & Limitations	2	Normal Takeoff & Climb	2
Operation of Systems	2	Normal Approach & Landing	2
Human Factors	2	Soft-Field Takeoff & Climb	2
Physiological Aspects of Night Flying	2	Soft-Field Approach & Landing	2
Lighting & Equipment for Night Flying	2	Short-Field Takeoff & Climb	2
Supplemental Oxygen	2	Short-Field Approach & Landing	2
Pressurization	2	Go-Around / Rejected Landing	2
		180° Power-Off Approach	2
		Communications & Light Signals	2
		Traffic Patterns	2
		Emergency Descent	2
		Emergency Approach & Landing	2
		Systems & Equipment Malfunctions	2
		Emergency Equipment & Survival Gear	2
		Pilotage / Dead Reckoning	2
		Navigation Systems	2
		ATC Radar Services	2
		Diversion	2
		Lost Procedure	2
		Steep Turns	2
		Chandelles	2
		Lazy Eights	2
		Steep Spiral	2
		Eights on Pylons	2
		Maneuvering during Slow Flight	2
		Power-Off Stalls	2
		Power-On Stalls	2
		Accelerated Stalls	2
		Spin Awareness	2
		After Landing Checks	2
		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures to the standards in the current FAA Commercial Pilot Airman Certification Standards.

**STAGE IV**  
**LESSON 68**  
**DUAL – LOCAL**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.5) _____ GROUND (0.3) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____

**LESSON OBJECTIVE**

During this lesson, the student will review flight maneuvers for the end-of-course test or Commercial Pilot Practical Test.

**CONTENT**

Lesson Task			Lesson Task		
Task Grade		Completion Standard	Task Grade		Completion Standard
	Performance & Limitations	2		180° Power-Off Approach	2
	Preflight Inspection	2		Emergency Descent	2
	Flight Deck Management	2		Emergency Approach & Landing	2
	Engine Starting	2		Systems & Equipment Malfunctions	2
	Taxiing	2		Steep Turns	2
	Before Takeoff Check	2		Chandelles	2
	Runway Incursion Avoidance	2		Lazy Eights	2
	Traffic Patterns	2		Steep Spiral	2
	Communications & Light Signals	2		Eights on Pylons	2
	Normal Takeoff & Climb	2		Maneuvering during Slow Flight	2
	Normal Approach & Landing	2		Power-Off Stalls	2
	Soft-Field Takeoff & Climb	2		Power-On Stalls	2
	Soft-Field Approach & Landing	2		Accelerated Stalls	2
	Short-Field Takeoff & Climb	2		Spin Awareness	2
	Short-Field Approach & Landing	2		After Landing Checks	2
	Go-Around / Rejected Landing	2		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

The student will perform all maneuvers at the Commercial Pilot Airman Certification Standards. The student shall also be prepared for the Commercial Pilot Test or end-of-course test.

**ADDITIONAL STUDY**

FAA-H-8083-25-PHAK – Pilot’s Handbook of Aeronautical Knowledge  
 FAA-H-8083-3-AFH – Airplane Flying Handbook  
 Vol 1-7: Review Segments as Needed

**END-OF-COURSE 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 end of course requirements. The check instructor should verify that these times are acceptable for completion of the stage.

**Part 141 / AATD LOA Note:** The training time in an approved AATD used to meet the minimum requirements of Part 141 may not exceed 20% of the total flight training time required for the course of instruction. Training time in a BATD, an unapproved AATD, or a PCATD cannot be counted toward the total flight training time required under Part 141

DATE \_\_\_\_\_

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

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

**STAGE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**COURSE TOTALS**

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

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

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

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

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

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

FLIGHT TIME (DUAL COMPLEX/TAA AIRCRAFT): \_\_\_\_\_

AATD: \_\_\_\_\_

HOOD: \_\_\_\_\_ (Simulated instrument - flight only.)

GROUND: \_\_\_\_\_

**STAGE IV**  
**LESSON 69**  
**DUAL – LOCAL**  
**END-OF-COURSE TEST**

DATE _____	GRADE (Circle One) S U I
STUDENT NAME _____	STUDENT SIGNATURE _____
INSTRUCTOR # _____	INSTRUCTOR SIGNATURE _____
FLIGHT TIME (1.8) _____	HOOD (0.3) _____ GROUND (1.5) _____
TOTAL IN COURSE (D/S/G) _____ / _____ / _____	

**LESSON OBJECTIVE**

The student shall demonstrate the knowledge and skill of a Commercial Pilot with an approved check instructor, Assistant Chief Instructor, or Chief Instructor. The end-of-course test will be completed in accordance with the Commercial Pilot ACS, with the instructor using an individualized Plan of Action. At a minimum, the student's Airman Knowledge Test Report deficiencies will be tested. If operating under examining authority, the student will have the applicable practical test endorsements from their normally assigned, recommending instructor.

**CONTENT**

Lesson Task - Oral		Lesson Task - Flight	
Task Grade	Completion Standard	Task Grade	Completion Standard
Pilot Qualifications	2	Preflight Inspection	2
Airworthiness Requirements	2	Flight Deck Management	2
Weather Information	2	Engine Starting	2
Cross-Country Flight Planning	2	Taxiing	2
National Airspace System	2	Before Takeoff Check	2
Performance & Limitations	2	Normal Takeoff & Climb	2
Operation of Systems	2	Normal Approach & Landing	2
Human Factors	2	Soft-Field Takeoff & Climb	2
Physiological Aspects of Night Flying	2	Soft-Field Approach & Landing	2
Lighting & Equipment for Night Flying	2	Short-Field Takeoff & Climb	2
Supplemental Oxygen	2	Short-Field Approach & Landing	2
Pressurization	2	Go-Around / Rejected Landing	2
		180° Power-Off Approach	2
		Communications & Light Signals	2
		Traffic Patterns	2
		Emergency Descent	2
		Emergency Approach & Landing	2
		Systems & Equipment Malfunctions	2
		Emergency Equipment & Survival Gear	2
		Pilotage / Dead Reckoning	2
		Navigation Systems	2
		ATC Radar Services	2
		Diversion	2
		Lost Procedure	2
		Steep Turns	2
		Chandelles	2
		Lazy Eights	2
		Steep Spiral	2
		Eights on Pylons	2
		Maneuvering during Slow Flight	2
		Power-Off Stalls	2
		Power-On Stalls	2
		Accelerated Stalls	2
		Spin Awareness	2
		After Landing Checks	2
		Parking, Securing, & Proper Tie Down	2

**COMPLETION STANDARDS**

The end-of-course test will be complete when the student performs all required maneuvers and tasks to the Commercial Pilot Airman Certification Standards. Also, the instructor and student will review the 14 CFR part 141 requirements for the Commercial Pilot Certificate and determine that the student has met all of them. Upon successful completion, the student will be issued a graduation certificate and will become eligible to take the practical examination. If operating under examining authority, the student will also be issued a Commercial Pilot Certificate.

