

SPORTY'S ACADEMY®

COMMERCIAL PILOT TRAINING COURSE OUTLINE

(FLIGHT TRAINING SYLLABUS)

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

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Commercial Pilot Certification Course

STUDENT INFORMATION		
Name	LAST	FIRST
_____ MIDDLE _____		
Address _____		
City _____	State _____	ZIP _____
Telephone _____	MOBILE	HOME
_____ WORK _____		
Email _____		
Pilot Cert.	TYPE	CERT #
_____ DATE ISSUED _____		
Emergency Contact _____		
Phone _____	Relationship _____	

ENROLLMENT INFORMATION	
Course Title _____	
Enrollment Date _____	Approved School Cert # _____
Medical Certificate _____	CLASS
_____ DATE ISSUED _____	
Previous School _____	Course Title _____
Training Credit _____	FLIGHT
_____ GROUND _____	
Approval of Training Credit _____	CHIEF INSTRUCTOR
Remarks _____	

STAGE CHECK / KNOWLEDGE TEST COMPLETION RECORD					
Date _____	Stage _____	Ck Pilot _____	Date _____	Stage _____	Ck Pilot _____
Date _____	Stage _____	Ck Pilot _____	Date _____	Stage _____	Ck Pilot _____
Date of Knowledge Test _____		Grade _____			

ENDORSEMENT RECORD		
Pre-Multiengine Training U.S. Citizenship Confirmation or TSA Alien Flight Training Requirements		
Completed with Records	Date _____	Inst. Int. _____
Complex Airplane		
Date _____	A/C Type _____	Inst. Int. _____
High Performance Airplane		
Date _____	A/C Type _____	Inst. Int. _____

COMPLETION INFORMATION		
Completion _____	Transfer _____	Terminated _____
DATE	DATE	DATE
Records Certified Correct _____	CHIEF INSTRUCTOR	
Remarks _____		

COURSE OVERVIEW

COURSE OBJECTIVE

The student will obtain the additional 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 Certification with an Airplane Single-Engine Land rating are met.

TRAINING SYLLABUS

The training syllabus meets all curriculum requirements as prescribed by 14 CFR 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.

TRAINING COURSE

The Training Course contains four (4) stages. Each stage is designed to be completed in no more than sixty (60) days.

COURSE INTRODUCTION

The Commercial Pilot Certification Course - 1 utilizes the building-block theory of learning, which recognizes that each item taught must be presented on the basis of previously learned knowledge and skills.

Optimum effectiveness is realized when ground lessons 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 - 1 utilizes integrated flight and ground segments. The course includes the latest FAA pilot certification requirements and a maximum of student-oriented instruction. The syllabus and support materials not only provide necessary information, but also guide the student through the course in a logical manner.

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 define unfamiliar terms and explain 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 at least several previously learned maneuvers and tasks before new maneuvers and tasks are introduced. The instructor must be confident that the student is capable of performing 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 - 1 allows, as an option, the use of an approved advanced aviation training device (AATD) for those lessons designated in the Course Time Allocation Table under the Aircraft Type heading and other lessons based on the discretion of the Chief Instructor to the extent allowed by 141 regulations and the manufacturer's letter of authorization (LOA) from the FAA. The best results are obtained when an AATD introduction is accomplished just prior to the flight lesson.

An approved flight training device (FTD) may be substituted for the AATD lessons.

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 of 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 TESTS

Stage checks and end-of-course tests 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 tests also gives 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.

ACADEMICS

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 either as a formal classroom program or individually by the instructor. 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. 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.

COMMERCIAL PILOT CERTIFICATION COURSE - 1 IMPLEMENTATION

In an effort to maximize training time the syllabus lessons are divided into three general categories: 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 another certificated pilot as a passenger or crewmember.

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.

If deviation from the normal lesson progression is desired, the instructor can approve the change of sequence of Solo and PIC lessons. Only the 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 earlie). Under no circumstances should any flight lessons 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 are also grouped in accordance with geographical locations for the training. Lessons may be 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

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

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

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

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

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

RECORDING SOLO/PIC LESSONS

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

The overall solo/PIC lesson will be assigned a "grade" based on the following criteria.

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

GRADING NOTES

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

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 be enrolled in 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 the aircraft category rating for which the course applies, and pass the required Instrument Rating Practical test prior to completing the Commercial Pilot Certification Course - 1.

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 end-of-course tests 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.

COMMERCIAL PILOT CERTIFICATION COURSE - 1 FLIGHT TRAINING SYLLABUS

COURSE OBJECTIVES

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

COURSE TIME ALLOCATION TABLE

STAGE NO.	LESSON NO.	FLIGHT TIME							BRIEFING	A/C TYPE
		DUAL	SOLO	PIC	FTD / AATD	INSTRUMENT	X-COUNTRY	NIGHT		
I	1								1.5	
I	2	3.5				1.0	3.5		0.5	Fixed Gear
I	3	3.5				1.0	3.5	3.5	0.5	Fixed Gear
I	4		2.0				2.0	2.0		Fixed Gear
I	5			2.2			2.2			Fixed Gear
I	6			4.0			4.0			Fixed Gear
I	7		1.3					1.3		Fixed Gear
I	8			4.0			4.0			Fixed Gear
I	9		1.3					1.3		Fixed Gear
I	10		7.0				7.0			Fixed Gear
I	11		1.3					1.3		Fixed Gear
I	12	1.5							0.5	Fixed Gear
I	13	2.0							1.0	Fixed Gear
I	Totals	10.5	12.9	10.2		2.0	26.2	9.4	4.0	
II	14								1.2	
II	15	1.3				0.3			0.3	Fixed Gear
II	16			1.3						Fixed Gear
II	17								2.0	
II	18	4.0				2.5	4.0		0.3	Fixed Gear
II	19								1.5	
II	20				1.6				0.3	AATD, G1000
II	21			1.3						Fixed Gear
II	22				1.6	1.4			0.3	AATD, G1000
II	23			7.0			7.0			Fixed Gear
II	24				1.6	1.4			0.3	AATD, G1000
II	25			6.0			6.0			Fixed Gear
II	26	4.0				2.5	4.0		0.3	Fixed Gear
II	27			3.0			3.0			Fixed Gear
II	28				2.0	1.8			0.3	AATD, G1000
II	29			3.0			3.0			Fixed Gear
II	30								1.5	
II	31			4.0			4.0			Fixed Gear
II	32	1.5				0.3			0.5	Fixed Gear
II	Totals	10.8		25.6	6.8	10.2	31.0		8.8	
III	33								2.5	
III	34				1.5				0.5	AATD, Cmplx
III	35				1.3				0.3	AATD, Cmplx
III	36	1.5				0.3		1.5	0.5	Cmplx ASEL
III	37	1.5				0.3		1.5	0.3	Cmplx ASEL
III-A	38-A	1.5						1.5	0.3	Cmplx ASEL
III-A	39-A	1.3				0.3			0.7	High Perf
III-A	40-A	1.8				0.3			0.3	High Perf
III-A	41-A				1.3				0.3	AATD, Cmplx
III-A	42-A	2.0				1.4		2.0	0.3	Cmplx ASEL
III-A	43-A	1.5				0.3		1.5	0.3	Cmplx ASEL
III-B	38-B-G								1.5	
III-B	38-B	1.6				0.3		1.6	0.3	Cmplx AMEL
III-B	39-B-G								1.5	
III-B	39-B	1.6				0.3		1.6	0.3	Cmplx AMEL
III-B	40-B-G								1.5	
III-B	40-B				2.0				0.3	AATD, AMEL
III-B	41-B	1.6				0.8		1.6	0.3	Cmplx AMEL
III-B	42-B	1.6				0.8		1.6	0.3	Cmplx AMEL
III-B	43-B-G								1.5	
III-B	43-B	1.6				0.5		1.6	0.3	Cmplx AMEL
III-A	44-A	1.5				0.3		1.5	1.5	Cmplx ASEL
III-B	44-B	1.6				0.5		1.6	1.5	Cmplx AMEL
III-A	Totals	12.6			4.1	3.2		9.5	7.8	
III-B	Totals	12.6			4.8	3.8		12.6	13.4	
IV	45								2.0	
IV	46	1.3							0.3	Fixed Gear
IV	47	1.3							0.3	Fixed Gear
IV	48								1.2	
IV	49	1.3							0.3	Fixed Gear
IV	50	1.3							0.3	Fixed Gear
IV	51			1.3						Fixed Gear
IV	52								1.2	
IV	53	1.5				0.3			0.3	Fixed Gear
IV	54	1.5				0.3			0.3	Fixed Gear
IV	55	1.3				0.3			0.3	Fixed Gear
IV	56	1.3				0.3			0.3	Fixed Gear
IV	57								1.2	
IV	58	1.3							0.3	Fixed Gear
IV	59			1.3						Fixed Gear
IV	60	1.3							0.3	Fixed Gear
IV	61	1.8				0.5	1.8		0.5	Fixed Gear

STAGE NO.	LESSON NO.	FLIGHT TIME							BRIEFING	A/C TYPE	
		DUAL	SOLO	PIC	FTD / AATD	INSTRUMENT	X-COUNTRY	NIGHT			COMPLEX
IV	62								1.2		
IV	63			1.3						Fixed Gear	
IV	64			1.3						Fixed Gear	
IV	65	1.3						1.3	0.3	Cmplx ASEL	
IV	66	1.5			0.3			1.5	0.3	Cmplx ASEL	
IV	67	1.5						1.5	0.3	Cmplx ASEL	
IV	68								2.0		
IV	69	1.8						1.8	1.5	Cmplx ASEL	
IV	Totals	21.3		5.2		2.0	1.8		6.1	14.7	
COURSE TOTALS-A		55.2	12.9	41.0	10.9	17.4	59.0	9.4	15.6	35.3	
COURSE TOTALS-B		55.2	12.9	41.0	11.6	18.0	59.0	9.4	18.7	40.9	
FLIGHT/FTD/AATD		120.0 /									
TOTAL (A / B)		121.6									
COURSE COMPLETION MINIMUMS		55	10			10 (5 ASEL)		NIGHT SOLO	5	COMPLEX	10
							TOTAL FLIGHT TRAINING		120	GROUND	35

Note: Times on this chart are recommended; more or less time may be required based on individual performance. 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*/FTD combined) of which no more than 24 hours can be in an approved AATD*/FTD. 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 10 hours of instrument training time must be performed with a view limiting device and 5 hours must be in a single-engine airplane. Aircraft listed in the A/C Type column are recommendations, and the flight instructor can substitute appropriately equipped aircraft when necessary (as an example, an appropriate complex airplane can be substituted for a fixed gear airplane but a fixed gear cannot be substituted when the lesson calls for a complex airplane--ASEL and AMEL indications should be honored where specified). Day and night dual cross-countries with a duration of more than 2 hours each traversing a straight-line distance greater than 100 nautical miles from the departure point must be completed. A solo cross-country with a landing at a minimum of 3 points and one leg having a straight-line distance greater than 250 nautical miles must be completed. Paths "A" & "B" in stage III are explained on the Objectives and Standards page for that stage. Refer to that page for any questions regarding the use of the two path options.

*The FAA Letters of Authorization (LOA) for the Frasca Mentor and Frasca 142 AATDs allow their use for up to 20% (24 hours) of the total 120 hours required by 14 CFR 141, Appendix D.

STAGE I

STAGE OBJECTIVE:

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
 GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.5) _____
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 in a multi-pilot crew environment.

CONTENT:

Lesson Introduction

- _____ National Airspace System
- _____ Federal Aviation Regulations
- _____ Aeronautical Charts & Publications for VFR Navigation
- _____ Cross-Country Flight Planning
- _____ Route Selection
- _____ Procurement & Use of Aviation Weather Reports & Forecasts
- _____ Planning for Alternatives
- _____ Weight & Balance Computations
- _____ Performance & Limitations
- _____ Aircraft Performance Calculations
- _____ Fuel Requirements
- _____ Navigation Log
- _____ VFR Flight Plan
- _____ Pilotage
- _____ Dead reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Lost Procedures
- _____ Diversion

Lesson Introduction

- _____ Flight Deck Management
- _____ Emergency Operations
- _____ Collision Avoidance
- _____ Recognition of Critical Weather Situations
- _____ Crew Resource Management
- _____ Aeronautical Decision Making & Judgment
- _____ Risk Management
- _____ Task Management
- _____ Situational Awareness
- _____ Controlled Flight into Terrain Awareness
- _____ Automation Management
- _____ Radio Communications
- _____ Pilot Flying
- _____ Pilot Not Flying (Pilot Monitoring)
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ Sterile Cockpit
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities

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 oral quizzing and role playing.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE I
LESSON 2
DUAL - CROSS-COUNTRY

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (3.5) _____		INST: (1.0) _____	
DISCUSSION: (0.5) _____			
AIRPORT IDENT: _____		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. The student will expand upon a previous knowledge about cross-country flight. In addition, practical application of multi pilot crew scenarios shall be applied during the flight. A portion of the flight will be conducted using basic attitude instrument skills with a view limiting device (V.L.D.).

CONTENT:

Lesson Introduction

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Forward Slips to a Landing

Lesson Introduction

- _____ Go-Around / Rejected Landing
- _____ Departure & Course Interception
- _____ Navigation Log
- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Flight Deck Management
- _____ Communications & Light Signals
- _____ Traffic Patterns

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, and go-arounds and also perform navigation skills to within 150% of the standards listed in the current FAA Commercial Pilot Airman Certification Standards. In addition the student should demonstrate to the instructor a basic comprehension of operations in a multi-pilot crew situation and during BAI operations.

Notes:	

STAGE I
LESSON 3
DUAL - CROSS-COUNTRY,
NIGHT

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (3.5) _____	INST: (1.0) _____	DISCUSSION: (0.5) _____
AIRPORT IDENT: _____	TOTAL IN COURSE: (D/S/G) _____ / _____ / _____	

LESSON OBJECTIVE:

During this lesson, the student learns to perform navigation at night by performing a night cross-country flight. Emphasis is placed on the importance of proper planning and accurate navigation. In addition, practical application of multi pilot crew scenarios shall be applied during the flight. A portion of the flight will be conducted using basic attitude instrument skills with a view limiting device (V.L.D.).

CONTENT:

Lesson Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Departure & Course Interception
- _____ Navigation Log
- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion

Lesson Review

- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Forward Slips to a Landing
- _____ Go-Around / Rejected Landing

Lesson Introduction

- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying
- _____ Airport, Taxiway, & Runway Signs, Markings, & Lighting

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, and go-arounds and also perform navigation skills to the standards listed within the Commercial Pilot Airman Certification Standards. In addition the student should demonstrate to the instructor a comprehension of operations in a multi-pilot crew environment and during BAI flight.

STAGE I
LESSON 4
SOLO – CROSS-COUNTRY,
NIGHT

DATE _____	ACFT/AATD ID _____	GRADE (Circle One)	SP I
STUDENT NAME _____		STUDENT SIGNATURE _____	
FLIGHT TIME: (2.0) _____		DISCUSSION: () _____	
AIRPORT IDENT: _____		TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

LESSON OBJECTIVE:

The student will practice and further develop their cross-country flight planning and procedures by flying 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 Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Tower Controlled Airport Operation
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Departure & Course Interception
- _____ Navigation Log

Lesson Review

- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Altitude Selection
- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying

COMPLETION STANDARDS:

The student will demonstrate the skill to perform **solo** cross country flights safely. The student shall accurately navigate from the departure airport to an airport greater than 50 nautical miles away and return to the departure airport. In addition, the student shall practice night landings and increase their knowledge about operations at a towered airport.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE I
LESSON 5
PIC - CROSS-COUNTRY

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (2.2) _____ DISCUSSION: () _____
AIRPORT IDENT: _____ 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. In addition the student may also increase their proficiency when operating in a multi-pilot crew environment.

CONTENT:

Lesson Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Tower Controlled Airport Operation
- _____ Non-Tower Controlled Airport Operation
- _____ Departure & Course Interception
- _____ Navigation Log

Lesson Review

- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Altitude Selection
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

COMPLETION STANDARDS:

The student should demonstrate added proficiency in cross-country planning and selecting an appropriate route and cruising altitude for the flight. **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 practiced techniques for operating in a multi-pilot crew environment.

Notes: _____ _____ _____ _____ _____
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STAGE I
LESSON 6
PIC - CROSS-COUNTRY

DATE _____	ACFT/AATD ID _____	GRADE (Circle One)	SP I
STUDENT NAME _____		STUDENT SIGNATURE _____	
FLIGHT TIME: (4.0) _____		DISCUSSION: () _____	
AIRPORT IDENT: _____		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. In addition the student may also increase their proficiency when operating in a multi-pilot crew environment.

CONTENT:

Lesson Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Tower Controlled Airport Operation
- _____ Non-Tower Controlled Airport Operation
- _____ Departure & Course Interception

Lesson Review

- _____ Navigation Log
- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Altitude Selection
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

COMPLETION STANDARDS:

The student should demonstrate added proficiency in cross-country planning and selecting an appropriate route and cruising altitude for the flight. **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 practiced techniques for operating in a multi-pilot crew environment.

Notes:

STAGE I
LESSON 7
SOLO - LOCAL, NIGHT

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
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

- _____ Flight Deck Management
- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb

Lesson Review

- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Tower Controlled Airport Operation

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE I
LESSON 8
PIC - CROSS COUNTRY

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (4.0) _____ DISCUSSION: () _____
AIRPORT IDENT: _____ 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. In addition the student may also increase their proficiency when operating in a multi-pilot crew environment.

CONTENT:

Lesson Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Tower Controlled Airport Operation
- _____ Non-Tower Controlled Airport Operation
- _____ Departure & Course Interception

Lesson Review

- _____ Navigation Log
- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Altitude Selection
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

COMPLETION STANDARDS:

The student should demonstrate added proficiency in cross-country planning and selecting an appropriate route and cruising altitude for the flight. **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 practiced techniques for operating in a multi-pilot crew environment.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE I
LESSON 9
SOLO - LOCAL, NIGHT

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
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

- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb

Lesson Review

- _____ Normal Approach & Landing
- _____ Tower Controlled Airport Operation
- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying

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.

Notes: _____ _____ _____ _____ _____
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STAGE I
LESSON 10
SOLO - CROSS-COUNTRY

DATE _____	ACFT/AATD ID _____	GRADE (Circle One)	SP I
STUDENT NAME _____		STUDENT SIGNATURE _____	
FLIGHT TIME: (7.0) _____		DISCUSSION: () _____	
AIRPORT IDENT: _____		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. In addition the student will have the ability to practice flight planning and flight operations near the maximum capabilities of the aircraft.

CONTENT:

Lesson Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Tower Controlled Airport Operation
- _____ Non-Tower Controlled Airport Operation
- _____ Departure & Course Interception
- _____ Navigation Log
- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR Navigation

Lesson Review

- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Altitude Selection
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

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, and one segment of the flight must be a straight-line distance of at least 250 nautical miles.**

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE I
LESSON 11
SOLO - LOCAL, NIGHT

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
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 in order to meet the solo requirements for a Commercial Pilot Certificate.

CONTENT:

Lesson Review

- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb

Lesson Review

- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Tower Controlled Airport Operation

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.**

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE I
LESSON 12
DUAL - NON-LOCAL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.5) _____		DISCUSSION: (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. In addition the student will have an opportunity to refine the procedures for operating in a multi-pilot crew environment.

CONTENT:

Lesson Review

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Departure & Course Interception

Lesson Review

- _____ Navigation Log
- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Forward Slips to a Landing
- _____ Go-Around / Rejected Landing

COMPLETION STANDARDS:

The student shall demonstrate all requested tasks and maneuvers to the commercial pilot skill level.

Notes:

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/FTD 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. This limit is raised to 30% for an approved flight simulator or a combination of an approved AATD/FTD and a simulator. 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 AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

STAGE I
LESSON 13
DUAL - STAGE CHECK,
NON-LOCAL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (2.0) _____		DISCUSSION: (1.0) _____	
INSTRUMENT: (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. In addition, the demonstration of operations in a multi-pilot crew environment will be displayed.

CONTENT:

Lesson Review

Preflight Preparation

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying

Airport Operations

- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns

Navigation

- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedures

Emergency Operations

- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear

Lesson Review

Preflight Procedures

- _____ Flight Deck Management

Takeoffs, Landings, & Go-Arounds

- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Forward Slip to a Landing

Additional Tasks & Maneuvers

- _____ Power Setting & Mixture Control
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ Sterile Cockpit
- _____ Basic Attitude Instrument Flight (with V.L.D.)

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. The procedures for operations in a multi-pilot crew environment should also be demonstrated by the student.

<p>Notes:</p> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 10px;"/> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 10px;"/> <hr style="border: 0; border-top: 1px solid black;"/>
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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
GROUND

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

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to the Commercial Pilot Airman Certification Standards.

CONTENT:

Lesson Introduction

- _____ Use of the Airman Certification Standards
- _____ Aircraft, Equipment, and Operational Requirements & Limitations
- _____ Applicant Responsibilities
- _____ Instructor Responsibilities
- _____ Evaluator Responsibilities
- _____ Satisfactory Performance
- _____ Unsatisfactory Performance
- _____ Single-Pilot Resource Management

Lesson Introduction

- _____ Use of Checklists
- _____ Use of Distractions
- _____ Positive Exchange of Flight Controls
- _____ Stalls and Spin Awareness
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 15
DUAL - LOCAL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.3) _____		DISCUSSION: (0.3) _____	
INSTRUMENT: (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 in preparation for complex cross-country planning.

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Emergency Approach & Landing
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Variations in Climbs

Lesson Review

- _____ Variations in Range
- _____ Variations in Endurance
- _____ Variations in Gliding Performance
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ Steep Turns
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness

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.

Notes:

STAGE II
LESSON 16
PIC - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Lesson Review

- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Steep Turns

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.

Notes: _____ _____ _____ _____ _____
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**STAGE II
LESSON 17
GROUND**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (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 Review

- _____ National Airspace System
- _____ Procurement & Use of Aviation Weather Reports & Forecasts
- _____ Cross-Country Flight Planning
- _____ VFR/IFR Composite Flight Plan
- _____ Navigation Log
- _____ Planning for Alternatives
- _____ Lost Procedures
- _____ Route Selection
- _____ Performance & Limitations
- _____ Aeronautical Decision Making & Judgment
- _____ Aeronautical Charts & Publications
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Emergency Operations

Lesson Introduction

- _____ Operations in Class B Airspace
- _____ High Density Traffic Airports
- _____ High Density Altitude Airport Operations
- _____ Federal Resources for Information and Rule / Policy Interpretation
- _____ FAA Aeronautical Information Services vs. Commercial Charting Products

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 18
DUAL - CROSS-COUNTRY

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (4.0) _____ DISCUSSION: (0.3) _____		
INSTRUMENT: (2.5) _____		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 Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Airport, Taxiway, & Runway Signs, Markings, & Lighting
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedure

Lesson Review

- _____ VOR Radial Interception & Tracking
- _____ VOR/VOR-DME Approach
- _____ Localizer Approach
- _____ GPS Approach
- _____ ILS Approach
- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing from a Straight-In or Circling Approach Procedure
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Holding Procedures
- _____ Air Traffic Control Clearances
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ After Landing, Parking, & Securing

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.

Notes:

STAGE II
LESSON 19
GROUND

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Introduction

- _____ Garmin G1000
- _____ Line Replaceable Units
- _____ Primary Flight Display (PFD)
- _____ Multi Function Display (MFD)
- _____ Audio Panel
- _____ G1000 Operational Techniques
- _____ Direct-To Operations

Lesson Introduction

- _____ Flight Plan Operations
- _____ Loading & Activating Instrument Procedures
- _____ Flying Instrument Procedures
- _____ Standby Instruments
- _____ Autopilot Operations
- _____ Abnormal Operations
- _____ Emergencies

COMPLETION STANDARDS:

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

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 20
DUAL - AATD, G1000

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD: (1.6) _____ DISCUSSION: (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 Introduction

- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb

Lesson Introduction

- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Emergency Approach & Landing
- _____ Traffic Patterns
- _____ Steep Turns

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 21
PIC - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Lesson Review

- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Step Turns

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 22
DUAL - AATD, G1000

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD: (1.6) _____ DISCUSSION: (0.3) _____
INSTRUMENT: (1.4) _____ 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 Introduction

- _____ Flight Deck Management
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Basic Attitude Instrument Flight
- _____ VOR Radial Interception & Tracking
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances

Lesson Introduction

- _____ Holding Procedures
- _____ VOR/VOR-DME Approach
- _____ Localizer Approach
- _____ GPS Approach
- _____ ILS Approach
- _____ Missed Approach Procedures
- _____ Landing from a Straight-In Approach

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 23
PIC - CROSS-COUNTRY

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (7.0) _____ DISCUSSION: () _____
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 Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services

Lesson Review

- _____ Diversion
- _____ Lost Procedure
- _____ User & Other Fees
- _____ VFR Operations in Class B Airspace
- _____ High Density Traffic Airports
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE II
LESSON 24
DUAL - AATD, G1000

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD: (1.6) _____ DISCUSSION: (0.3) _____
INSTRUMENT: (1.4) _____ 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 & descend via procedures and instrument approaches with the loss of the PFD in a G1000 equipped AATD.

CONTENT:

Lesson Review

- _____ Flight Deck Management
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Basic Attitude Instrument Flight
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ GPS Approach
- _____ ILS Approach
- _____ Missed Approach Procedures
- _____ Landing from a Straight-In Approach

Lesson Introduction

- _____ Climb Via Departure Procedures
- _____ Descend Via Arrival Procedures
- _____ Instrument Approaches with Loss of PFD
- _____ Abnormal & Emergency Procedures Related to the G1000

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 25
PIC - CROSS-COUNTRY

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (6.0) _____ DISCUSSION: () _____
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 Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedure

Lesson Review

- _____ Wind Shear Recognition & Avoidance
- _____ High Density Altitude Airports
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE II
LESSON 26
DUAL - CROSS-COUNTRY

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (4.0) _____ DISCUSSION: (0.3) _____		
INSTRUMENT: (2.5) _____		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 second-in-command/pilot not flying/pilot monitoring duties while acting as SIC on one leg of this cross-country flight.

CONTENT:

Lesson Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Airport, Taxiway, & Runway Signs, Markings, & Lighting
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ VOR Radial Interception & Tracking
- _____ VOR/VOR-DME Approach
- _____ Localizer Approach
- _____ GPS Approach
- _____ ILS Approach

Lesson Review

- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing from a Straight-In or Circling Approach Procedure
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Holding Procedures
- _____ Air Traffic Control Clearances
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ Pilot Not Flying (Pilot Monitoring / SIC) Duties
- _____ Challenge & Response Checklist Usage
- _____ Flow Checks
- _____ Sterile Cockpit
- _____ PIC Brief
- _____ Departure Briefing
- _____ Division of Responsibilities
- _____ After Landing, Parking, & Securing

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 SIC duties while the flight instructor flies a cross-country leg.

Notes:	_____

STAGE II
LESSON 27
PIC - CROSS-COUNTRY

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE _____
FLIGHT TIME: (3.0) _____ DISCUSSION: () _____
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 Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedure
- _____ Wind Shear Recognition & Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Communications & Light Signals

Lesson Review

- _____ VOR Radial Interception & Tracking
- _____ VOR/VOR-DME Approach
- _____ Localizer Approach
- _____ GPS Approach
- _____ ILS Approach
- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing from a Straight-In or Circling Approach Procedure
- _____ Basic Attitude Instrument Flight (with V.L.D. if a Safety Pilot is available)
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ Traffic Patterns
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE II
LESSON 28
DUAL - AATD, G1000

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
AATD: (2.0) _____ DISCUSSION: (0.3) _____
INSTRUMENT: (1.8) _____ 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 Review

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

Lesson Introduction

- _____ Flight Director Operations
- _____ Instrument Approaches with the Flight Director
- _____ Autopilot Operations
- _____ Instrument Approaches with the Autopilot

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 29
PIC - CROSS-COUNTRY

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (3.0) _____ DISCUSSION: () _____
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 Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedure
- _____ Wind Shear Recognition & Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Communications & Light Signals

Lesson Review

- _____ VOR Radial Interception & Tracking
- _____ VOR/VOR-DME Approach
- _____ Localizer Approach
- _____ GPS Approach
- _____ ILS Approach
- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing from a Straight-In or Circling Approach Procedure
- _____ Basic Attitude Instrument Flight (with V.L.D. if a Safety Pilot is available)
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ Traffic Patterns
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE II
LESSON 30
GROUND

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (1.5) _____
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 Introduction

- _____ Required Documents for International Flights
- _____ International & Canadian / Bahamian Flight Plans
- _____ Customs Requirements
- _____ Electronic Advance Passenger Information System (eAPIS) Requirements and Use
- _____ ADCUS
- _____ Customs Fees

Lesson Introduction

- _____ User Fees
- _____ Landing Rights Airport
- _____ Canadian / Bahamian Aviation Regulations
- _____ ICAO & Canadian / Bahamian Airspace
- _____ General Declaration
- _____ Canadian / Bahamian Charts & Publications
- _____ ADIZ
- _____ Transoceanic Flight Planning
- _____ Transoceanic Flight Operations

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE II
LESSON 31
PIC - CROSS-COUNTRY-Intl

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) SP I
 STUDENT NAME _____ STUDENT SIGNATURE _____
 FLIGHT TIME: (4.0) _____ INSTRUMENT: () _____
 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 Review

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Airport, Taxiway, & Runway Signs, Markings, & Lighting
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Basic Attitude Instrument Flight (with V.L.D. if a Safety Pilot is available)
- _____ VOR Radial Interception & Tracking
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances

Lesson Review

- _____ VOR/VOR-DME Approach
- _____ Localizer Approach
- _____ GPS Approach
- _____ ILS Approach
- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing From a Straight-In or Circling Approach Procedure
- _____ After Landing, Parking, & Securing
- _____ Required Documents for International Flights
- _____ Canadian / Bahamian Flight Plans
- _____ Customs Requirements
- _____ Electronic Advance Passenger Information System (eAPIS) Requirements and Use
- _____ Landing Rights Airport
- _____ Canadian / Bahamian Aviation Regulations
- _____ Canadian / Bahamian Airspace
- _____ General Declaration
- _____ Canadian / Bahamian Charts & Publications

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.

Notes:

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/FTD 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. This limit is raised to 30% for an approved flight simulator or a combination of an approved AATD/FTD and a simulator. 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 AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

COURSE TOTALS

FLIGHT TIME (DUAL): _____
FLIGHT TIME (SOLO): _____
FLIGHT TIME (DUAL CROSS-COUNTRY DAY): _____
FLIGHT TIME (DUAL CROSS-COUNTRY NIGHT): _____
FLIGHT TIME (SOLO CROSS-COUNTRY): _____
FLIGHT TIME (SOLO NIGHT): _____
FLIGHT TIME (DUAL COMPLEX AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

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

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.5) _____		DISCUSSION: (0.5) _____	
INSTRUMENT: (0.3) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____	

LESSON OBJECTIVE:

The objective of this lesson is to assure 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 Review

Preflight Preparation

- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ Performance & Limitations

Preflight Procedures

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

Airport Operations

- _____ Communications & Light Signals
- _____ Traffic Patterns

Navigation

- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedure

Lesson Review

Takeoffs, Landings, & Go-Arounds

- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Additional Tasks & Maneuvers

- _____ Required Documents for International Flights
- _____ Customs Requirements
- _____ Landing Rights Airport
- _____ Canadian / Bahamian Aviation Regulations
- _____ ICAO & Canadian / Bahamian Airspace
- _____ ADIZ
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ High Density Traffic Airports

Post-Flight Procedures

- _____ After Landing, Parking, & Securing

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.

<p>Notes:</p> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> <hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/>
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STAGE III

STAGE OBJECTIVE:

The objective of this stage is to introduce the student to operations in complex airplanes and high performance airplanes.

STAGE COMPLETION STANDARDS:

This stage will be complete when the student demonstrates the ability to accurately pilot a complex and/or high performance airplane to the level of a private pilot with an instrument rating. The student will receive endorsements for the operation of complex and high performance airplanes prior to completion of this stage.

STAGE PATH OPTIONS:

This stage has two path options and students need only complete path III-A or III-B. Lessons labeled with only a "III" must be completed by all students in a single-engine complex airplane. Lessons labeled "III-A" will meet the complex and high performance objectives of this stage utilizing a single-engine complex airplane for the complex lessons and the option of using either a high performance single-engine or a high performance multiengine airplane for the high performance lessons. Lessons labeled "III-B" will meet the complex and high performance objectives of this stage utilizing a complex and high performance multiengine airplane. If the multiengine training airplane available is not high performance, the HP lessons from path III-A should be completed in a high performance single-engine airplane as a part of the III-B path.

STAGE III
LESSON 33
GROUND,
Complex ASEL (Cx ASEL)

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (2.5) _____
TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

LESSON OBJECTIVE:

The student shall be introduced to the systems and operations of a complex airplane.

CONTENT:

Lesson Introduction

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ Performance & Limitations
- _____ Operation of Systems
- _____ Constant Speed Propeller Operations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Emergency Descent
- _____ Systems & Equipment Malfunctions

Lesson Introduction

- _____ Supplemental Oxygen
- _____ Pressurization
- _____ Use of a Minimum Equipment List
- _____ Weight & Balance (Shift)
- _____ Powerplant Operations
- _____ Retractable Landing Gear Operation
- _____ Traffic Patterns
- _____ Emergency Approach & Landing
- _____ Emergency Equipment & Survival Gear

COMPLETION STANDARDS:

The student will demonstrate a basic knowledge of complex airplanes. This should include the aircraft systems, ground operations, and basic flight maneuvers.

Notes: _____ _____ _____ _____ _____
--

STAGE III
LESSON 34
DUAL - AATD, Cx ASEL

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Introduction

- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Traffic Patterns
- _____ Steep Turns
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls

Lesson Introduction

- _____ Accelerated Stalls
- _____ Drag Demonstrations
- _____ Variations in Power Settings
- _____ Constant Speed Propellers Operations
- _____ Retractable Landing Gear Operations
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS:

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

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III
LESSON 35
DUAL - AATD, Cx ASEL

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

LESSON OBJECTIVE:

The objective of this lesson is to introduce the student to the basics of emergency operations and review the normal operation of a complex airplane.

CONTENT:

Lesson Review

- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Steep Turns
- _____ After Landing, Parking, & Securing
- _____ Constant Speed Propeller Operations
- _____ Retractable Landing Gear Operations

Lesson Introduction

- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear

COMPLETION STANDARDS:

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

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III
LESSON 36
DUAL - LOCAL, Cx ASEL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.5) _____ DISCUSSION: (0.5) _____ CMPLX: (1.5) _____
INSTRUMENT: (0.3) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

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

CONTENT:

Lesson Introduction

- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Steep Turns
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ After Landing, Parking, & Securing

Lesson Introduction

- _____ Drag Demonstrations
- _____ Variations in Power Settings
- _____ Constant Speed Propeller Operation
- _____ Retractable Landing Gear Operation
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Go-Around / Rejected Landing

COMPLETION STANDARDS:

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

Notes: _____ _____ _____ _____ _____
--

STAGE III
LESSON 37
DUAL - LOCAL, Cx ASEL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.5) _____ DISCUSSION: (0.3) _____ CMPLX: (1.5) _____
INSTRUMENT: (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 airplanes. This shall include operations in the slow flight regime and emergency procedures.

CONTENT:

Lesson Review

- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Steep Turns
- _____ Operation of Constant Speed Propeller
- _____ Operation of Retractable Landing Gear
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ After Landing, Parking, & Securing

Lesson Introduction

- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

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 $\pm 15^\circ$. During normal and crosswind landings, the aircraft should touchdown at or within 500 feet beyond a specified point.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III-A
LESSON 38-A
DUAL - LOCAL, Cx ASEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.5) _____		DISCUSSION: (0.3) _____	
Cmplx: (1.5) _____		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 airplanes. This shall include operations in the slow flight region, emergency procedures and operations at towered airports.

CONTENT:

Lesson Review

- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Traffic Patterns
- _____ Communications & Light Signals
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

Lesson Review

- _____ Go-Around / Rejected Landing
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Steep Turns
- _____ After Landing, Parking, & Securing

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 $\pm 15^\circ$. During normal and crosswind landings, the aircraft should touchdown at or within 500 feet beyond a specified point. The student should also demonstrate proficiency when communicating with ATC.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III-A
LESSON 39-A
DUAL - LOCAL, High Perf (HP)

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: (0.7) _____ HP: (1.3) _____
INSTRUMENT: (0.3) _____ 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 Introduction

- _____ High Performance Operations
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb (ASEL Only)
- _____ Soft-Field Approach & Landing (ASEL Only)
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing

Lesson Introduction

- _____ Go-Around / Rejected Landing
- _____ Traffic Patterns
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ After Landing, Parking, & Securing

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III-A
LESSON 40-A
DUAL - NON-LOCAL, HP

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.8) _____	DISCUSSION: (0.3) _____	HP: (1.8) _____	
INSTRUMENT: (0.3) _____		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.

CONTENT:

Lesson Review

- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb (ASEL Only)
- _____ Soft-Field Approach & Landing (ASEL Only)
- _____ Short-Field Takeoff & Climb

Lesson Review

- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ After Landing, Parking, & Securing

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 technique 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.**

Notes:

STAGE III-A
LESSON 41-A
DUAL - AATD, Cx ASEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
AATD: (1.3) _____		DISCUSSION: (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 airplane.

CONTENT:

Lesson Review

- _____ Basic Attitude Instrument Flight
- _____ VOR Radial Interception & Tracking
- _____ Holding Procedures
- _____ Air Traffic Control Clearances
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ FAA IFR Flight Plan
- _____ ATC Communications
- _____ VOR/VOR-DME Approach
- _____ GPS Approach (If Equipped)

Lesson Review

- _____ ILS Approach
- _____ No-Gyro Radar Vectoring
- _____ Localizer Approach (Front/Back Course)
- _____ Radar Approach Procedure
- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing from a Straight-In or Circling Approach Procedure
- _____ Loss of Gyro Attitude and/or Heading Indicators

COMPLETION STANDARDS:

The student should demonstrate close to instrument pilot proficiency in each of the procedures reviewed. During the lesson, altitude should be maintained ± 100 feet and airspeed ± 10 knots. During the VOR/VOR-DME approach, 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.

Notes:	

STAGE III-A
LESSON 42-A
DUAL - LOCAL, Cx ASEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (2.0) _____	DISCUSSION: (0.3) _____	CMPLX: (2.0) _____
INSTRUMENT: (1.4) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

During this lesson the student will practice instrument approach procedures in a complex airplane.

CONTENT:

Lesson Review

- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Holding Procedures
- _____ Air Traffic Control Clearances
- _____ Compliance with Departure, En Route, & Arrival Procedures & Clearances
- _____ VOR/VOR-DME Approach
- _____ Localizer Approach (Front/Back Course)
- _____ GPS Approach (If Equipped)
- _____ ILS Approach
- _____ No-Gyro Radar Vectoring

Lesson Review

- _____ Radar Approach Procedure
- _____ Missed Approach Procedures
- _____ Circling Approach Procedure
- _____ Landing from a Straight-In or Circling Approach Procedure
- _____ VOR Radial Interception & Tracking
- _____ Loss of Gyro Attitude and/or Heading Indicators
- _____ FAA IFR Flight Plan
- _____ ATC Communications

COMPLETION STANDARDS:

During the lesson, altitude should be maintained ± 100 feet and airspeed ± 10 knots. During the VOR/VOR-DME approach, 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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III-A
LESSON 43-A
DUAL - LOCAL, Cx ASEL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.5) _____ DISCUSSION: (0.3) _____ CMLPX: (1.5) _____
INSTRUMENT: (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 airplane.

CONTENT:

Lesson Review

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ Performance & Limitations
- _____ Operation of Systems
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb

Lesson Review

- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Supplemental Oxygen
- _____ Pressurization
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS

This lesson will be complete when the student demonstrates the ability to fly a complex 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 Private Pilot Airman Certification Standards. **Upon successful completion of this lesson the student shall receive a complex airplane endorsement.**

Notes: _____ _____ _____ _____ _____
--

STAGE III-B
LESSON 38-B-G
GROUND,
Complex AMEL (Cx AMEL)

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

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to the training aircraft, including checklist usage, the AFM/POH, and instrument procedures in a multiengine airplane.

CONTENT:

Lesson Introduction

- _____ Aircraft – General
- _____ Primary Flight Controls and Trim
- _____ Multiengine Operations
- _____ Operation of Avionics Systems Unique to Training Airplane
- _____ Pilot Operating Handbook (POH)
- _____ Training Aircraft V-Speeds
- _____ Weight and Balance
- _____ Performance and Limitations
- _____ Checklist Usage

Lesson Introduction

- _____ Preflight Procedures
- _____ Landing Gear Operations
- _____ Flap System Operations
- _____ Maneuvers and Procedures with Two Engines
- _____ IFR En Route Procedures – Multiengine (ME)
- _____ Non-Precision Approaches – ME
- _____ Precision Approaches – ME
- _____ Missed Approach – ME

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate through oral discussion, a basic knowledge of the training aircraft and multiengine instrument procedures.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH – Airplane Flying Handbook
- AFM/POH – Airplane Flight Manual / Pilot’s Operating Handbook
- Sporty’s What You Should Know series DVD *So You Want to Fly Twins* (SYWTFT) - Chapters 5, 7, 13

Notes: _____ _____ _____ _____ _____
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STAGE III-B
LESSON 38-B
DUAL - LOCAL, Cx AMEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.6) _____	DISCUSSION: (0.3) _____	CMPLX: (1.6) _____	
INSTRUMENT: (0.3) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____	

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to multiengine airplane operations, including starting, takeoff and landing, and basic maneuvering under visual flight rules. An instrument approach will be introduced during the return to the airport but will be abandoned at a sufficient distance to allow a stabilized approach and landing.

CONTENT:

Lesson Introduction

- _____ Preflight Ground Evaluation of Student's Understanding of Procedures to be Covered in the Airplane
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Operation of Avionics Systems Unique to Training Airplane
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Checks
- _____ Departure and Arrival Briefing
- _____ Normal and/or Crosswind Takeoff and Climb

Lesson Introduction

- _____ Propeller Synchronization
- _____ Medium Turns
- _____ Steep Turns
- _____ Aircraft Systems Operations
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Traffic Pattern Operations
- _____ Non-Precision Approach – ME
- _____ Normal and/or Crosswind Approach and Landing
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate a basic knowledge of multiengine operations.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- FAA-S-ACS-7-CACS – Commercial Pilot Airman Certification Standards
- AFM/POH
- SYWTFT DVD - Chapters 1-5, 7

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III-B
LESSON 39-B-G
GROUND, Cx AMEL

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

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to multiengine aircraft performance on one and two engines. Additional training maneuvers will also be covered.

CONTENT:

Lesson Introduction

- _____ Aerodynamics with Two Engines
- _____ Part 23 Certification
- _____ Aircraft Performance Charts
- _____ Accelerate-Stop / Accelerate-Go
- _____ Spin Awareness
- _____ Critical Engine Considerations
- _____ Principles of Flight with One Engine Inoperative
- _____ Performance Considerations with One Engine Inoperative
- _____ Emergency Checklist – Crossfeed Operations
- _____ Maneuvers and Procedures with One Engine Inoperative

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate through oral discussion, knowledge and understanding of aircraft performance on one and two engines.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- AFM/POH
- SYWTFT DVD - Chapters 8, 9

Notes: _____ _____ _____ _____ _____
--

STAGE III-B
LESSON 39-B
DUAL - LOCAL, Cx AMEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.6) _____	DISCUSSION: (0.3) _____	CMPLX: (1.6) _____
INSTRUMENT: (0.3) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to single-engine procedures in a multiengine airplane, including four fundamentals on a single-engine and the V_{MC} demonstration under visual flight rules. An instrument approach will be reviewed during the return to the airport with missed approach procedures introduced. The missed approach will be abandoned once established in a stabilized climb in a clean configuration and at an appropriate altitude and location for turning crosswind in the traffic pattern. Other visual traffic pattern operations will be introduced.

CONTENT:

Lesson Review

- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Checks
- _____ Departure and Arrival Briefing
- _____ Normal and/or Crosswind Takeoff and Climb
- _____ Propeller Synchronization
- _____ Steep Turns
- _____ Aircraft Systems Operations
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Non-Precision Approach – ME
- _____ Traffic Pattern Procedures
- _____ Normal and/or Crosswind Approach and Landing
- _____ After Landing, Parking, & Securing

Lesson Introduction

- _____ Preflight Ground Evaluation of Student's Understanding of Procedures to be Covered in the Airplane
- _____ Short-Field Takeoff and Climb
- _____ Engine Shutdown in Flight (as applicable)
- _____ Single-Engine Operations
- _____ Four Fundamentals – SE
- _____ Fuel Crossfeed Operations
- _____ Engine Startup in Flight (as applicable)
- _____ Drag Demonstration
- _____ V_{MC} Demonstration
- _____ Descent Planning
- _____ Missed Approach – ME
- _____ Go-Around / Rejected Landing
- _____ Short-Field Approach and Landing

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate competence in basic multiengine operations.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH
 AFM/POH
 SYWTFT DVD - Chapters 8, 9

Notes:

STAGE III-B
LESSON 40-B-G
GROUND, Cx AMEL

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

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to engine failures and emergencies. Instrument procedures on a single engine will also be covered.

CONTENT:

Lesson Introduction

- _____ Emergency Checklist Usage
- _____ Emergency Approach and Landing
- _____ Engine Failure Procedures on the Ground before V_{MC}
- _____ Engine Failure Procedures in Cruise Flight – Visual Reference (VR)
- _____ Engine Failure Procedures after Takeoff
- _____ Single-Engine Approach and Landing
- _____ Go-Around / Rejected Landing – SE
- _____ Engine Failure Procedures during Cruise Flight – Instrument Reference (IR)

Lesson Introduction

- _____ IFR En Route Procedures – SE
- _____ Non-Precision Approaches – SE
- _____ Precision Approaches – SE
- _____ Missed Approach – SE
- _____ Emergency Equipment and Survival Gear
- _____ Systems Malfunctions
- _____ Emergency Descent
- _____ Hot Starts
- _____ Emergency Landing Gear Extension

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate through oral discussion, knowledge and understanding of engine failures, emergencies, and single engine instrument procedures.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- AFM/POH
- SYWTFT DVD - Chapters 11, 14

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE III-B
LESSON 40-B
DUAL - AATD, Cx AMEL

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

LESSON OBJECTIVE:

During this ground trainer based lesson, the instructor will introduce the student to emergencies and additional instrument approach procedures in a multiengine airplane.

CONTENT:

Lesson Introduction

- _____ Engine Failure Procedures on the Ground before V_{MC}
- _____ Engine Failure Procedures during Cruise Flight – VR
- _____ Engine Failure Procedures after Takeoff
- _____ Normal and/or Crosswind Approach and Landing – SE
- _____ Go-Around / Rejected Landing – SE
- _____ Dual Engine Failure Procedures
- _____ Systems Malfunctions
- _____ Emergency Descent

Lesson Introduction

- _____ Precision Approaches – ME
- _____ Missed Approach – ME
- _____ Landing from an Instrument Approach – ME
- _____ Engine Failure Procedures during Cruise Flight – IR
- _____ IFR En Route Procedures – SE
- _____ Non-Precision Approaches – SE
- _____ Precision Approaches – SE
- _____ Missed Approach – SE
- _____ Landing from an Instrument Approach – SE

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate competence in basic multiengine operations.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- AFM/POH
- SYWTFT DVD - Chapters 11, 13-14

Notes: _____ _____ _____ _____ _____
--

STAGE III-B
LESSON 41-B
DUAL - LOCAL, Cx AMEL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.6) _____ DISCUSSION: (0.3) _____ CMLPX: (1.6) _____
INSTRUMENT: (0.8) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to additional procedures in a multiengine airplane, including instrument operations on both engines and a single engine and engine failure procedures under visual and instrument conditions.

CONTENT:

Lesson Review

- _____ Before Takeoff Checks
- _____ Departure and Arrival Briefing
- _____ Normal and/or Crosswind Takeoff and Climb
- _____ Short-Field Takeoff and Climb
- _____ Steep Turns
- _____ Aircraft Systems Operations
- _____ Single-Engine Operations
- _____ Four Fundamentals – SE
- _____ Fuel Crossfeed Operations
- _____ V_{MC} Demonstration
- _____ Traffic Pattern Procedures
- _____ Go-Around / Rejected Landing
- _____ Missed Approach – ME
- _____ Normal and/or Crosswind Approach and Landing
- _____ Short-Field Approach and Landing

Lesson Introduction

- _____ Preflight Ground Evaluation of Student's Understanding of Procedures to be Covered in the Airplane
- _____ Precision Approaches – ME
- _____ Landing from an Instrument Approach – ME
- _____ Engine Failure Procedures during Cruise Flight – VR
- _____ Engine Failure Procedures during Cruise Flight – IR
- _____ IFR En Route Procedures – Simulated SE
- _____ Non-Precision Approaches – Simulated SE
- _____ Normal and/or Crosswind Approach and Landing – Simulated SE

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate competence in basic multiengine operations.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH
AFM/POH
SYWTFT DVD - Chapter 13

Notes: _____ _____ _____ _____ _____
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STAGE III-B
LESSON 42-B
DUAL - LOCAL, Cx AMEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.6) _____	DISCUSSION: (0.3) _____	CMPLX: (1.6) _____
INSTRUMENT: (0.8) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to additional single-engine procedures in a multiengine airplane, including engine failures before and after takeoff under visual flight rules, additional emergency instrument operations, and other emergency procedures.

CONTENT:

Lesson Review

- _____ Short-Field Takeoff and Climb
- _____ Normal and/or Crosswind Takeoff and Climb
- _____ Aircraft Systems Operations
- _____ Engine Failure Procedures during Cruise Flight
- _____ Single-Engine Operations
- _____ Non-Precision Approaches – Simulated SE
- _____ Short-Field Approach and Landing
- _____ Normal and/or Crosswind Approach and Landing – Simulated SE

Lesson Introduction

- _____ Preflight Ground Evaluation of Student's Understanding of Procedures to be Covered in the Airplane
- _____ Engine Failure Procedures after Takeoff (Simulated)
- _____ Engine Failure Procedures on the Ground before V_{MC}
- _____ Precision Approaches – Simulated SE
- _____ Missed Approach – Simulated SE
- _____ Landing from an Instrument Approach – Simulated SE
- _____ Go-Around / Rejected Landing – Simulated SE
- _____ Systems Malfunctions
- _____ Emergency Descent
- _____ No or Partial Flap Approach and Landing
- _____ Emergency Landing Gear Extension

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate competence in basic multiengine operations.

ADDITIONAL STUDY:

FAA-H-8083-3-AFH
 AFM/POH
 SYWTFT DVD - Chapter 14

Notes:	

STAGE III-B
LESSON 43-B-G
GROUND, Cx AMEL

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

LESSON OBJECTIVE:

During this lesson, the instructor will introduce the student to the training aircraft's equipment and systems.

CONTENT:

Lesson Introduction

- _____ Aircraft Engines and Propellers
- _____ Fuel System
- _____ Oil System
- _____ Hydraulic Systems
- _____ Additional Flaps & Landing Gear Systems
- _____ Electrical Systems
- _____ Environmental Systems
- _____ Deicing and Anti-Icing Systems
- _____ Vacuum System
- _____ Additional Systems Unique to the Training Airplane

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate through oral discussion, knowledge and understanding of the training aircraft's equipment and systems.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- AFM/POH
- SYWTFT DVD - Chapters 6, 10, 12

Notes: _____ _____ _____ _____ _____
--

STAGE III-B
LESSON 43-B
DUAL - LOCAL, Cx AMEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.6) _____	DISCUSSION: (0.3) _____	CMPLX: (1.6) _____
INSTRUMENT: (0.5) _____		TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

During this lesson, the instructor will review procedures in the multiengine airplane as required.

CONTENT:

Lesson Review

- _____ Flight Deck Management
- _____ Short-Field Takeoff and Climb
- _____ Aircraft Systems Operation
- _____ Engine Failure Procedures after Takeoff (Simulated)
- _____ Engine Failure Procedures on the Ground before V_{MC}
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls

Lesson Review

- _____ V_{MC} Demonstration
- _____ Steep Turns
- _____ Systems Malfunctions
- _____ Emergency Descent
- _____ Engine Failure Procedures during Cruise
- _____ Flight – IR
- _____ IFR En Route Procedures – Simulated SE
- _____ Non-Precision Approaches – Simulated SE
- _____ Landing from an Instrument Approach – Simulated SE
- _____ Short-Field Approach and Landing

COMPLETION STANDARDS:

At the completion of this lesson, the student will demonstrate an understanding of the training aircraft's advanced equipment and systems and demonstrate maneuvers to the FAA Commercial Pilot Airman Certification Standards. **Upon successful completion of this lesson the student shall receive a high performance airplane endorsement and a complex airplane endorsement.**

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- FAA-S-ACS-7-CACS
- AFM/POH
- SYWTFT DVD - Review Chapters as Needed

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

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

Part 141 / AATD LOA Note: The training time in an approved AATD/FTD 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. This limit is raised to 30% for an approved flight simulator or a combination of an approved AATD/FTD and a simulator. 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 AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

COURSE TOTALS

FLIGHT TIME (DUAL): _____
FLIGHT TIME (SOLO): _____
FLIGHT TIME (DUAL CROSS-COUNTRY DAY): _____
FLIGHT TIME (DUAL CROSS-COUNTRY NIGHT): _____
FLIGHT TIME (SOLO CROSS-COUNTRY): _____
FLIGHT TIME (SOLO NIGHT): _____
FLIGHT TIME (DUAL COMPLEX AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

STAGE III-A
LESSON 44-A
DUAL - STAGE CHECK,
Cx ASEL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.5) _____ DISCUSSION: (1.5) _____ CMPLX: (1.5) _____
INSTRUMENT: (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 airplane and meets the objectives of Stage III.

CONTENT:

Lesson Review

Preflight Preparation

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ Performance & Limitations
- _____ Operation of Systems

Preflight Procedures

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

Takeoffs, Landings, & Go-Arounds

- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Lesson Review

Airport Operations

- _____ Communications & Light Signals
- _____ Traffic Patterns

High Altitude Operations

- _____ Supplemental Oxygen
- _____ Pressurization

Emergency Operations

- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear

Additional Tasks & Maneuvers

- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)

Postflight Procedures

- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS

This lesson will be complete when the student demonstrates the ability to fly a high performance, complex 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 Private Pilot Airman Certification Standards.

Notes: _____ _____ _____ _____ _____
--

STAGE III-B
LESSON 44-B
DUAL - STAGE CHECK,
Cx AMEL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.6) _____ DISCUSSION: (1.5) _____ CMPLX: (1.6) _____
INSTRUMENT: (0.5) _____ TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

During this lesson, the student will review all multiengine maneuvers and procedures specified in the FAA Commercial Pilot Airman Certification Standards.

CONTENT:

Lesson Review

Preflight Preparation

- _____ Performance and Limitations
- _____ Principles of Flight – Engine Inoperative
- _____ Operation of Systems

Preflight Procedures

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

Takeoffs, Landings And Go-Arounds

- _____ Normal and Crosswind Takeoffs and Climb
- _____ Normal and Crosswind Approach and Landing
- _____ Short-Field Takeoff and Climb
- _____ Short-Field Approach and Landing

Performance Maneuver

- _____ Steep Turns

Lesson Review

Slow Flight And Stalls

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

Emergency Operations

- _____ Emergency Descent
- _____ Engine Failure Procedures on the Ground before V_{MC}
- _____ Engine Failure Procedures after Takeoff (Simulated)
- _____ Normal and/or Crosswind Approach and Landing – Simulated SE
- _____ Systems and Equipment Malfunctions
- _____ Emergency Equipment and Survival Gear

Multiengine Operations

- _____ Maneuvering with One Engine Inoperative
- _____ V_{MC} Demonstration
- _____ Engine Failure during Flight – IR & VR
- _____ Instrument Approach – Simulated SE – IR

COMPLETION STANDARDS:

This final check is complete when the student has demonstrated competence in all multiengine operations, including instrument approach procedures, and single-engine operations in accordance with the FAA Commercial Pilot Airman Certification Standards.

ADDITIONAL STUDY:

- FAA-H-8083-3-AFH
- FAA-S-ACS-7-CACS
- AFM/POH
- SYWTFT DVD - Review Chapters as Needed

Notes: _____ _____ _____ _____ _____
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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
GROUND

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (2.0) _____
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 Review

- _____ Lift
- _____ Drag
- _____ Load Factor
- _____ Straight & Level
- _____ Turns
- _____ Descents
- _____ Climbs
- _____ Rate of Turn
- _____ Maneuvering during Slow Flight
- _____ Steep Turns
- _____ Diving Spiral
- _____ Thrust
- _____ Weight
- _____ Maneuvering Speed
- _____ Aircraft Stability
- _____ **Dynamic**
- _____ **Static**
- _____ Radius of Turn
- _____ Aircraft Maneuverability
- _____ Emergency Descent
- _____ Torque Effect

Lesson Introduction

- _____ Chandelles
- _____ Lazy Eights
- _____ Accelerated Stalls
- _____ Steep Spiral

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 a knowledge of how to perform chandelles, lazy eights, accelerated stalls, and steep spiral by demonstrating the maneuver through the use of a model aircraft.

Notes: _____ _____ _____ _____

STAGE IV
LESSON 46
DUAL - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: (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 Review

- _____ Steep Turns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Emergency Descent
- _____ Maneuvering during Slow Flight
- Climbs**
- Descents**
- _____ Power-Off Stalls (20° Bank)
- _____ Power-On Stalls (20° Bank)

Lesson Introduction

- _____ Aircraft Stability (Yaw)
- _____ Aircraft Stability (Pitch)
- _____ Aircraft Stability (Roll)
- _____ Falling Leaf
- _____ Chandelles
- _____ Steep Spiral
- _____ Accelerated Stalls

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 in performing emergency descents and performing steep turns while maintaining the altitude ± 100 feet. 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.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 47
DUAL - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: (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 Review

- _____ Steep Turns
- _____ Chandelles
- _____ Steep Spiral
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Emergency Descent
- _____ Maneuvering during Slow Flight
- Climbs**
- Descents**
- _____ Power-Off Stalls (20° Bank)
- _____ Power-On Stalls (20° Bank)
- _____ Accelerated Stalls

Lesson Introduction

- _____ Lazy Eights

COMPLETION STANDARDS:

At the completion of this lesson, the student will show an improvement in controlling the aircraft near the limits of its performance capabilities. The student should be able to explain the effect that torque effect has the various maneuvers and how aircraft stability is related to the performance of the various maneuvers. In addition, the student should be able to demonstrate and apply the necessary procedures to perform a lazy eight.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE IV
 LESSON 48
 GROUND**

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

LESSON OBJECTIVE:

The objective of this lesson is to 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 Review

- _____ Factors Affecting Takeoff
- Altitude**
- Temperature**
- Lift-Off Speed**
- Runway Surface**
- Weight**
- Wind**
- Runway Slope**
- Pilot Technique**
- _____ Factors Affecting Landing
- Altitude**
- Temperature**
- Approach Speed**
- Runway Surface**
- Weight**
- Slope**
- Runway Slope**
- Pilot Technique**
- Approach Angle**
- _____ Wind Recognition

Lesson Review

- _____ Best Glide
- _____ Slips
- _____ Soft-Field Takeoff & Climb
- _____ Short-Field Takeoff & Climb
- _____ Determining Wind Direction & Speed
- _____ Effect of Wind
- _____ Soft-Field Approach & Landing
- _____ Short Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Ground Effect

Lesson Introduction

- _____ Hydroplaning
- _____ Minimum Sink
- _____ Eights on Pylons
- _____ Turbulent Air Approach & Landing
- _____ Power-Off Accuracy Approaches
- _____ 90° Power-Off Approach
- _____ 180° Power-Off Approach
- _____ 360° Power-Off Approach

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.

Notes:

STAGE IV
LESSON 49
DUAL - LOCAL

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

LESSON OBJECTIVE:

The student will learn about applying their knowledge associated with the maximum performance of the aircraft. The student will be introduced to variations in landings and approaches and also to eights on pylons.

CONTENT:

Lesson Review

- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Emergency Approach & Landing
- _____ Aborted Takeoff
- _____ Slips
- _____ No Flap Landing

Lesson Introduction

- _____ Eights on Pylons
- _____ Turbulent Air Approach & Landing
- _____ Power-Off Accuracy Approaches
- _____ 90° Power-Off Approach
- _____ 180° Power-Off Approach
- _____ 360° Power-Off Approach

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE IV
LESSON 50
DUAL - LOCAL

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

LESSON OBJECTIVE:

The student will become more familiar 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 Review

- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Maneuvering during Slow Flight
- _____ **Climbs**
- _____ **Descents**
- _____ Power-Off Stalls (20° Bank)

Lesson Review

- _____ Power-On Stalls (20° Bank)
- _____ Accelerated Stalls
- _____ Eights on Pylons
- _____ Emergency Approach & Landing
- _____ Aborted Takeoff
- _____ Slips
- _____ No Flap Landing
- _____ Turbulent Air Approach & Landing
- _____ Power-Off Accuracy Approaches
- _____ 90° Power-Off Approach
- _____ 180° Power-Off Approach
- _____ 360° Power-Off Approach

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.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 51
PIC - LOCAL

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
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 Review

- _____ Go-Around / Rejected Landing
- _____ Short-Field Takeoff & Climb
- _____ Soft-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Soft-Field Approach & Landing
- _____ Eights on Pylons
- _____ Power-Off Accuracy Approaches
- _____ Maneuvering during Slow Flight

Lesson Review

- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral

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.

Notes: _____ _____ _____ _____ _____
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**STAGE IV
LESSON 52
GROUND**

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

LESSON OBJECTIVE:

The 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 Introduction

- _____ Aerodynamic Forces
- _____ Gyroscopic Forces
- _____ Aircraft Certification
- _____ Parachutes
- _____ Diving Spiral
- _____ Spin Characteristics
- _____ Visual Perspectives
- _____ Stall Recognition
- _____ Weight & Balance
- _____ Secondary Stall
- _____ Elevator-Trim Stall
- _____ Incipient Spin
- _____ Inverted Spin
- _____ Load Factor Chart (VG Diagram)

Lesson Introduction

- _____ Inertial Forces
- _____ Mechanical Forces
- _____ Aerobatic Flight
- _____ Entering a Spin
- _____ Spin Recovery Technique
- _____ Load Factors
- Limit**
- Ultimate**
- _____ Cross-Controlled Stall
- _____ Accelerated Stall
- _____ Fully Developed Spin
- _____ Flat Spin
- _____ Instrument Indications

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE IV
LESSON 53
DUAL - LOCAL

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)

Lesson Introduction

- _____ Secondary Stall
- _____ Elevator Trim Stall
- _____ Cross-Controlled Stall
- _____ Stalls during Go-Around / Rejected Landing
- _____ Diving Spiral
- _____ Diving Spiral Recovery
- _____ Spin Awareness

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE IV
LESSON 54
DUAL - LOCAL

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Stalls during Go-Around / Rejected Landing
- _____ Diving Spiral

Lesson Review

- _____ Diving Spiral Recovery
- _____ Cross-Controlled Stall
- _____ Secondary Stall
- _____ Elevator Trim Stall
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE IV
LESSON 55
DUAL - LOCAL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.3) _____		DISCUSSION: (0.3) _____	
INSTRUMENT: (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 Review

- _____ Performance & Limitations
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights

Lesson Review

- _____ Steep Spiral
- _____ Emergency Approach & Landing
- _____ Power-Off Accuracy Approaches
- _____ Secondary Stall
- _____ Elevator Trim Stall
- _____ Aborted Takeoff
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ Eights on Pylons
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness

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.

Notes:

STAGE IV
LESSON 56
DUAL - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: (0.3) _____
INSTRUMENT: (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 Review

- _____ Performance & Limitations
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights

Lesson Review

- _____ Steep Spiral
- _____ Emergency Approach & Landing
- _____ Power-Off Accuracy Approaches
- _____ Secondary Stall
- _____ Elevator Trim Stall
- _____ Aborted Takeoff
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ Eights on Pylons
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness

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.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 57
GROUND

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Commercial Pilot Privileges & Limitations
- _____ Basic Aerodynamics
- _____ Recognition of Critical Weather Situations
- _____ Use of Aeronautical Weather Reports & Forecasts
- _____ Performance Limitations
- _____ Magnetic Compass & Errors
- _____ Dead Reckoning
- _____ Aeronautical Decision Making & Judgment
- _____ Night Operations
- _____ High-Altitude Operations
- _____ Accident Reporting Requirements of the NTSB

Lesson Review

- _____ National Airspace System
- _____ Principles of Flight
- _____ Wind Shear Recognition & Avoidance
- _____ Weight & Balance
- _____ Use of Performance Charts
- _____ Aeronautical Charts
- _____ Pilotage
- _____ Use of Air Navigation Facilities
- _____ Aircraft Systems
- _____ Emergency Maneuvers & Procedures

COMPLETION STANDARDS:

The student should demonstrate commercial pilot aeronautical knowledge of the subjects requested by the instructor.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 58
DUAL - LOCAL

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ 180° Power-Off Approach

Lesson Review

- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 59
PIC - LOCAL

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum
- _____ Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Lesson Review

- _____ 180° Power-Off Approach
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 60
DUAL - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.3) _____ DISCUSSION: (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 Review

- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum
- _____ Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ 180° Power-Off Approach

Lesson Review

- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS:

This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures without more than minor 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 explain how to correct the deviations.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 61
DUAL - CROSS-COUNTRY

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.8) _____ DISCUSSION: (0.5) _____
INSTRUMENT: (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 diversion and lost procedure.

CONTENT:

Lesson Introduction

- _____ Weather Information
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Cross-Country Flight Planning
- _____ Flight Deck Management
- _____ Radio Communications
- _____ ATC Light Signals
- _____ Traffic Patterns
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Forward Slips to a Landing
- _____ Go-Around / Rejected Landing
- _____ Departure & Course Interception
- _____ Navigation Log

Lesson Introduction

- _____ Lost Procedures
- _____ Aeronautical Charts & Publications for VFR
- _____ Navigation
- _____ Planning for Alternatives
- _____ Diversion
- _____ Radar Services
- _____ Route Selection
- _____ Pilotage
- _____ Dead Reckoning
- _____ VOR Navigation
- _____ GPS Navigation
- _____ Other Navigation Systems
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ VFR Flight Plans
- _____ Power Setting & Mixture Control
- _____ Basic Attitude Instrument Flight (with V.L.D.)

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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE IV
LESSON 62
GROUND**

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

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ National Airspace System
- _____ Operation of Systems
- _____ Physiological Aspects of Night Flying
- _____ ATC Light Signals
- _____ Emergency Equipment & Survival Gear

Lesson Review

- _____ Weather Information
- _____ Performance & Limitations
- _____ Human Factors
- _____ Lighting & Equipment for Night Flying
- _____ Pressurization
- _____ Supplemental Oxygen

COMPLETION STANDARDS:

The student should demonstrate commercial pilot knowledge of the subjects requested by the instructor.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE IV
LESSON 63
PIC - LOCAL

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE_____
FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum
- _____ Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Lesson Review

- _____ 180° Power-Off Approach
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons
- _____ After Landing, Parking, & Securing

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.

Notes: _____ _____ _____ _____ _____
--

STAGE IV
LESSON 64
PIC - LOCAL

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) SP I
STUDENT NAME _____ STUDENT SIGNATURE _____

FLIGHT TIME: (1.3) _____ DISCUSSION: () _____
TOTAL IN COURSE: (D/S/G) _____ / _____ / _____

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum
- _____ Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing

Lesson Review

- _____ 180° Power-Off Approach
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons
- _____ After Landing, Parking, & Securing

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.

Notes:

STAGE IV
LESSON 65
DUAL - LOCAL, Cx ASEL

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I	
STUDENT NAME _____		STUDENT SIGNATURE _____	
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____	
FLIGHT TIME: (1.3) _____		DISCUSSION: (0.3) _____	
CMPLEX: (1.3) _____	TOTAL IN COURSE: (D/S/G) ____ / ____ / ____		

LESSON OBJECTIVE:

During this lesson, the student will be introduced to the commercial pilot maneuvers and procedures in a complex airplane.

CONTENT:

Lesson Review

- _____ Performance & Limitations
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ 180° Power-Off Approach

Lesson Review

- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons
- _____ Maneuvering during Slow Flight
- _____ Power-Off Stalls
- _____ Power-On Stalls
- _____ Accelerated Stalls
- _____ Spin Awareness
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS:

This lesson will be complete when the student has demonstrated the commercial pilot maneuvers and procedures in a complex airplane without more than minor 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 explain how to correct the deviations.

Notes:

STAGE IV
LESSON 66
DUAL - LOCAL, Cx ASEL

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

LESSON OBJECTIVE:

The objective of this lesson is to refresh the student's ability at piloting a complex airplane.

CONTENT:

Lesson Review

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ Performance & Limitations
- _____ Operation of Systems
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb

Lesson Review

- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ 180° Power-Off Approach
- _____ Supplemental Oxygen
- _____ Pressurization
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ Basic Attitude Instrument Flight (with V.L.D.)
- _____ Unusual Attitude Recovery with V.L.D. (Full & Partial Panel)
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS

This lesson will be complete when the student demonstrates the ability to fly a complex airplane 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.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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STAGE IV
LESSON 67
DUAL - LOCAL, Cx ASEL

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

LESSON OBJECTIVE:

The objective of this lesson is to confirm that the student can pilot a complex airplane to a commercial pilot level.

CONTENT:

Lesson Review

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ Performance & limitations
- _____ Operation of Systems
- _____ Preflight Inspection
- _____ Flight Deck Management
- _____ Engine Starting
- _____ Taxiing
- _____ Before Takeoff Check
- _____ Runway Incursion Avoidance
- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb

Lesson Review

- _____ Soft-Field Approach & Landing
- _____ Short-Field Takeoff & Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ Supplemental Oxygen
- _____ Pressurization
- _____ Communications & Light Signals
- _____ Traffic Patterns
- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear
- _____ After Landing, Parking, & Securing

COMPLETION STANDARDS

This lesson will be complete when the student demonstrates takeoffs, landings, and emergency procedures. The student should accomplish all maneuvers to the standards listed in the current FAA Commercial Pilot Airman Certification Standards.

<p>Notes:</p> <hr/> <hr/> <hr/> <hr/> <hr/>
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**STAGE IV
LESSON 68
GROUND
KNOWLEDGE TEST**

DATE _____ GRADE (Circle One) S U I
STUDENT NAME _____ STUDENT SIGNATURE _____
INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____
DISCUSSION: (2.0) _____
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 Commercial Pilot Certificate Practical Test. Items missed on the Commercial Pilot Knowledge Test should also be reviewed.

CONTENT:

Lesson Review

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ National Airspace System
- _____ Operation of Systems
- _____ ATC Light Signals
- _____ Emergency Equipment & Survival Gear
- _____ Pressurization
- _____ Accident Reporting Requirements of the NTSB
- _____ Principles of Flight
- _____ Wind Shear Recognition & Avoidance
- _____ Weight & Balance
- _____ Use of Performance Charts
- _____ Magnetic Compass & Errors
- _____ Aircraft Systems
- _____ Night Operations

Lesson Review

- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying
- _____ Weather Information
- _____ Performance & Limitations
- _____ Human Factors
- _____ Commercial Pilot Privileges & Limitations
- _____ Basic Aerodynamics
- _____ Recognition of Critical Weather Situations
- _____ Use of Aeronautical Weather & Forecasts
- _____ Cross-Country Flight Planning
- _____ Aeronautical Charts
- _____ Single-Pilot Resource Management
- _____ Aeronautical Decision Making & Judgment
- _____ Supplemental Oxygen
- _____ High Altitude Operations

COMPLETION STANDARDS:

The student should demonstrate knowledge of the subjects requested by the instructor to the standards listed in the current FAA Commercial Pilot Airman Certification Standards. The student must have scored at least 70% on the Commercial Pilot Knowledge Test. Items missed on the knowledge test should have been reviewed and an appropriate endorsement should have been given.

Notes: _____ _____ _____ _____ _____
--

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/FTD 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. This limit is raised to 30% for an approved flight simulator or a combination of an approved AATD/FTD and a simulator. 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 AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

COURSE TOTALS

FLIGHT TIME (DUAL): _____
FLIGHT TIME (SOLO): _____
FLIGHT TIME (DUAL CROSS-COUNTRY DAY): _____
FLIGHT TIME (DUAL CROSS-COUNTRY NIGHT): _____
FLIGHT TIME (SOLO CROSS-COUNTRY): _____
FLIGHT TIME (SOLO NIGHT): _____
FLIGHT TIME (DUAL COMPLEX AIRCRAFT): _____
AATD/FTD/SIM: _____
INSTRUMENT: _____ (In flight only.)
GROUND/DISCUSSION: _____ (Be sure to include the Ground Lesson times.)

STAGE IV
LESSON 69
DUAL - END-OF-COURSE TEST

DATE _____	ACFT/AATD ID _____	GRADE (Circle One) S U I
STUDENT NAME _____		STUDENT SIGNATURE _____
INSTRUCTOR # _____		INSTRUCTOR SIGNATURE _____
FLIGHT TIME: (1.8) _____		DISCUSSION: (1.5) _____
CMLPX: (1.8) _____	TOTAL IN COURSE: (D/S/G) ____ / ____ / ____	

LESSON OBJECTIVE:

The student shall demonstrate the knowledge and skill of a commercial pilot.

CONTENT:

Lesson Review

Preflight Preparation

- _____ Pilot Qualifications
- _____ Airworthiness Requirements
- _____ Weather Information
- _____ Cross-Country Flight Planning
- _____ National Airspace System
- _____ Performance & Limitations
- _____ Operation of Systems
- _____ Human Factors
- _____ Physiological Aspects of Night Flying
- _____ Lighting & Equipment for Night Flying

Preflight Procedures

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

Takeoffs, Landings, & Go-Arounds

- _____ Normal Takeoff & Climb
- _____ Normal Approach & Landing
- _____ Soft-Field Takeoff & Climb
- _____ Soft-Field Approach & Landing
- _____ Short Field Takeoff & Maximum Performance Climb
- _____ Short-Field Approach & Landing
- _____ Go-Around / Rejected Landing
- _____ 180° Power-Off Approach

Airport Operations

- _____ Communications & Light Signals
- _____ Traffic Patterns

Lesson Review

Emergency Operations

- _____ Emergency Descent
- _____ Emergency Approach & Landing
- _____ Systems & Equipment Malfunctions
- _____ Emergency Equipment & Survival Gear

Navigation

- _____ Pilotage & Dead Reckoning
- _____ Navigation Systems & ATC Radar Services
- _____ Diversion
- _____ Lost Procedure

Performance & Ground Reference Maneuvers

- _____ Steep Turns
- _____ Chandelles
- _____ Lazy Eights
- _____ Steep Spiral
- _____ Eights on Pylons

Slow Flight & Stalls

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

High Altitude Operations

- _____ Supplemental Oxygen
- _____ Pressurization

Postflight Procedures

- _____ After Landing, Parking, & Securing

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. **In order for this lesson to be complete, the student must have accomplished 120 hours of training.**

RECORD OF EXTRA TRAINING

(Copy as Required)

DATE _____ ACFT/AATD ID _____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE _____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE _____

FLIGHT TIME: _____ DISCUSSION: _____

TOTAL IN COURSE: (D/S/G) ____ / ____ / ____

CONTENT:
