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_____ Type _____ 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 _____

_____

SPORTY'S ACADEMY®

COMMERCIAL PILOT TRAINING COURSE OUTLINE

(FLIGHT TRAINING SYLLABUS)

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

Printed in the United States of America
ISBN 978-1-9811366-3-6

sportys.com

05/21

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 a Chief Instructor or a member of management 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 a Chief Instructor. The authority to conduct these checks and tests may be delegated by a 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 give a 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. A Chief Instructor or a member of Sporty's Academy Management may approve flight operations in the subsequent stage, provided that this approval is documented and for a specific reason. Valid reasons might include aircraft maintenance that is preventing progress in the current stage or a client medical issue that temporarily prevents solo flight operations in the current stage. Operations in the subsequent stage should be limited.

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 or when approved as previously defined.

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

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

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. When a paper TCO is being utilized, use the "TOTAL IN COURSE: (D/S/G)" lines within the grading box to total the student's dual, solo, and ground instruction times in the course after each lesson.

STUDENT INFORMATION

COURSE ENROLLMENT

To enroll in this course, you must be at least 17 years of age and able to read, speak, write, and understand the English language. To 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 a 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

		FLIGHT TIME									
STAGE NO.	LESSON NO.	DUAL	SOLO	PIC	FTD / AATD	INSTRUMENT	X-COUNTRY	NIGHT	COMPLEX or TAA	BRIEFING	A/C TYPE
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, CX/TAA
III	35				1.3					0.3	AATD, CX/TAA
III	36	1.5				0.3			1.5	0.5	CX/TAA ASEL
III	37	1.5				0.3			1.5	0.3	CX/TAA ASEL
III-A	38-A	1.8							1.8	0.3	CX/TAA ASEL
III-A	39-A	1.3				0.3				0.7	High Perf
III-A	40-A	1.3				0.3				0.3	High Perf
III-A	41-A				1.3					0.3	AATD, CX/TAA
III-A	42-A	2.0				1.4			2.0	0.3	CX/TAA ASEL
III-A	43-A	1.7				0.3			1.7	0.3	CX/TAA ASEL
III-B	38-B-G									1.5	
III-B	38-B	1.6				0.3			1.6	0.3	CX AMEL
III-B	39-B-G									1.5	
III-B	39-B	1.6				0.3			1.6	0.3	CX 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	CX AMEL
III-B	42-B	1.6				0.8			1.6	0.3	CX AMEL
III-B	43-B-G									1.5	
III-B	43-B	1.6				0.5			1.6	0.3	CX AMEL
III-A	44-A	1.5				0.3			1.5	1.5	CX/TAA ASEL
III-B	44-B	1.6				0.5			1.6	1.5	CX AMEL
III-A	Totals	12.6			4.1	3.2			10.0	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

		FLIGHT TIME									
STAGE NO.	LESSON NO.	DUAL	SOLO	PIC	FTD / AATD	INSTRUMENT	X-COUNTRY	NIGHT	COMPLEX or TAA	BRIEFING	A/C TYPE
IV	62									1.2	
IV	63			1.3							Fixed Gear
IV	64			1.3							Fixed Gear
IV	65	1.3								0.3	Fixed Gear
IV	66	1.5				0.3				0.3	Fixed Gear
IV	67	1.5								0.3	Fixed Gear
IV	68									2.0	
IV	69	1.8								1.5	Fixed Gear
IV	Totals	21.3		5.2		2.0	1.8			14.7	
COURSE TOTALS-A		55.2	12.9	41.0	10.9	17.4	59.0	9.4	10	35.3	
COURSE TOTALS-B		55.2	12.9	41.0	11.6	18.0	59.0	9.4	12.6	40.9	
FLIGHT/FTD/AATD TOTAL (A / B)		120.0 / 121.6									
COURSE COMPLETION MINIMUMS		55	10			10 (5 ASEL)		NIGHT SOLO	5	COMPLEX or TAA	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 or technically advanced airplane can be substituted for a fixed gear airplane but a non-technically advanced fixed gear cannot be substituted when the lesson calls for a complex or technically advanced 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 RTD and XSPEC 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.

Notes:

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.

Notes: _____

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:

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.

Notes:

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.

Notes: _____

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:

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.**

Notes:

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.**

Notes: _____

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.

Notes: _____

_____

_____

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.

Notes:

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:

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.

Notes:

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.

Notes:

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.

Notes:

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
_____ 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:

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.

Notes:

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

Notes:

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.

Notes:

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.

Notes:

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.

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

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.

Notes: _____

_____

_____

STAGE III

STAGE OBJECTIVE:

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

STAGE COMPLETION STANDARDS:

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

STAGE 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 or technically advanced airplane (a single-engine complex airplane is preferred but not required when path III-B is planned). Lessons labeled "III-A" will meet the complex or technically advanced and high performance objectives of this stage utilizing a single-engine complex or technically advanced airplane for the complex/TAA 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.

A technically advanced airplane must meet the requirements of 14 CFR §61.129(j) and specified components must be operational/visible.

STAGE III
LESSON 33
GROUND,
Complex/TAA ASEL
(Cx/TAA 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 and a technically advanced airplane.

CONTENT:

Lesson Introduction

_____ Pilot Qualifications for Complex and High Performance Airplanes
_____ Airworthiness Requirements
_____ Performance & Limitations
_____ Technically Advanced Airplane Definition
_____ Technically Advanced Airplane Operations
_____ Operation of Systems
_____ Constant Speed Propeller Operations
_____ Preflight Inspection
_____ Flight Deck Management
_____ Emergency Descent

Lesson Introduction

_____ Systems & Equipment Malfunctions
_____ 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 and technically advanced airplanes. This should include aircraft systems, ground operations, and basic flight maneuvers.

Notes: _____

STAGE III
LESSON 34
DUAL - AATD, Cx/TAA 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 or a technically advanced 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
_____ Accelerated Stalls

Lesson Introduction

_____ Drag Demonstrations (Cx)
_____ Variations in Power Settings
_____ Constant Speed Propellers Operations (Cx)
_____ Retractable Landing Gear Operations (Cx)
_____ PFD/MFD/Autopilot Integration & Operations (TAA)
_____ 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 or a technically advanced airplane.

Notes:

STAGE III
LESSON 35
DUAL - AATD, Cx/TAA 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 or a technically advanced 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 Propellers Operations (Cx)
_____ Retractable Landing Gear Operations (Cx)
_____ PFD/MFD/Autopilot Integration & Operations (TAA)

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 or technically advanced airplane operations. This shall also include an introduction on the basic principles of emergency procedures for a complex or a technically advanced airplane.

Notes:

STAGE III
LESSON 36
DUAL - LOCAL, Cx/TAA 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) _____ CX/TAA: (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 or a technically advanced 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
_____ Drag Demonstrations (Cx)

Lesson Introduction

_____ Variations in Power Settings
_____ Constant Speed Propellers Operations (Cx)
_____ Retractable Landing Gear Operations (Cx)
_____ PFD/MFD/Autopilot Integration & Operations (TAA)
_____ 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 or a technically advanced airplane.

Notes:

STAGE III
LESSON 37
DUAL - LOCAL, Cx/TAA 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) _____ CX/TAA: (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 or technically advanced 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
_____ Constant Speed Propellers Operations (Cx)
_____ Retractable Landing Gear Operations (Cx)
_____ PFD/MFD/Autopilot Integration & Operations (TAA)
_____ 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 ±15°. During normal and crosswind landings, the aircraft should touchdown at or within 500 feet beyond a specified point.

Notes: _____

STAGE III-A
LESSON 38-A
DUAL - LOCAL, Cx/TAA ASEL

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.8) _____ DISCUSSION: (0.3) _____

CX/TAA: (1.8) _____ TOTAL IN COURSE: (D/S/G) _____/____/_____

LESSON OBJECTIVE:

The objective of this lesson is to increase the student's confidence in the operation of complex or technically advanced airplanes. This shall include operations in the slow flight 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 ±15°. 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.

Notes:

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.

Notes:

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: (1.3) _____ DISCUSSION: (0.3) _____ HP: (1.3) _____

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/TAA 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 or a technically advanced 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
_____ ICAO 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, Localizer, and GPS approaches, the final approach course should be maintained with less than a three-quarter-scale deflection. During the ILS approach, the final approach course and glide slope should be maintained with less than a three-quarter-scale deflection.

Notes: _____

STAGE III-A
LESSON 42-A
DUAL - LOCAL, Cx/TAA 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) _____ CX/TAA: (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 or a technically advanced airplane.

CONTENT:

Lesson Review		Lesson Review	
_____	Basic Attitude Instrument Flight (with V.L.D.)	_____	Radar Approach Procedure
_____	Holding Procedures	_____	Missed Approach Procedures
_____	Air Traffic Control Clearances	_____	Circling Approach Procedure
_____	Compliance with Departure, En Route, & Arrival Procedures & Clearances	_____	Landing from a Straight-In or Circling Approach Procedure
_____	VOR/VOR-DME Approach	_____	VOR Radial Interception & Tracking
_____	Localizer Approach (Front/Back Course)	_____	Loss of Gyro Attitude and/or Heading Indicators
_____	GPS Approach (If Equipped)		
_____	ILS Approach	_____	ICAO IFR Flight Plan
_____	No-Gyro Radar Vectoring	_____	ATC Communications

COMPLETION STANDARDS:

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

Notes:

STAGE III-A
LESSON 43-A
DUAL - LOCAL, Cx/TAA ASEL

DATE_____ ACFT/AATD ID_____ GRADE (Circle One) S U I

STUDENT NAME _____ STUDENT SIGNATURE_____

INSTRUCTOR # _____ INSTRUCTOR SIGNATURE_____

FLIGHT TIME: (1.7) _____ DISCUSSION: (0.3) _____ CX/TAA: (1.7) _____

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 or a technically advanced 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 or a technically advanced airplane to another airport and return while accurately accomplishing landings and emergency procedures. The student should accomplish all maneuvers to the standards listed in the current FAA Commercial Pilot Airman Certification Standards. **Upon successful completion of this lesson the student shall receive a complex airplane endorsement if operations were completed in a complex airplane.**

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 - Chapter 12
AFM/POH – Airplane Flight Manual / Pilot's Operating Handbook
Sporty's *Multiengine Training Course* (Online, App and TV) (MTC) - Segments 3, 5, & 12

Notes: _____

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) _____ CX/TAA: (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 - Chapter 12
FAA-S-ACS-7-CACS – Commercial Pilot Airman Certification Standards
AFM/POH
MTC - Segments 1-3, 5

Notes: _____

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 - Chapter 12
AFM/POH
MTC - Segments 6 & 7

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) _____ CX/TAA: (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
- Chapter 12
AFM/POH
MTC - Segments 6 & 7

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 - Chapter 12
AFM/POH
MTC - Segments 9, 10, & 13

Notes: _____

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 - Chapter 12
AFM/POH
MTC - Segments 9-10 & 12-13

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) _____ CX/TAA: (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 - Chapter 12
AFM/POH
MTC - Segments 10, & 12-13

Notes:

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) _____ CX/TAA: (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 - Chapter 12
AFM/POH
MTC - Segments 9 & 13

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 - Chapter 12
AFM/POH
MTC - Segments 4, 8, & 11

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) _____ CX/TAA: (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 - Chapter 12
FAA-S-ACS-7-CACS
AFM/POH
MTC - Review Segments as Needed

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 III-A
LESSON 44-A
DUAL - STAGE CHECK, Cx/TAA 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) _____ CX/TAA: (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 or a technically advanced 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

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

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) _____ CX/TAA: (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
- Chapter 12
FAA-S-ACS-7-CACS
AFM/POH
MTC- Review
Segments as Needed

Notes:

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.

Notes:

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.

Notes: _____

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:

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 in a Spin

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.

Notes:

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.

Notes:

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.

Notes:

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

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.

Notes: _____

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.

Notes: _____

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

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 66
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:

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

Notes: _____

STAGE IV
LESSON 67
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) _____

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

LESSON OBJECTIVE:

The objective of this lesson is to confirm that the student can pilot an 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.

Notes:

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) _____

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:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____