COMMERCIAL PILOT FLIGHT TRAINING COURSE SYLLABUS

ATD Flight Systems
10 Richards Road
Kansas City, MO 64116

(816) 221-8455

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COMMERCIAL PILOT – AIRPLANE
TRAINING COURSE SYLLABUS

COURSE OBJECTIVES

The student will obtain the aeronautical skill and experience necessary to meet the requirements for a Commercial Pilot Certificate for Airplane.

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 Airplane Certificate are accomplished.

TRAINING COURSE
COMMERCIAL PILOT FLIGHT – AIRPLANE

COURSE INTRODUCTION

The Commercial Pilot Flight Training Course is the syllabus portion of ATD Flight Systems 14 CFR part 141 Approved Commercial Pilot Flight Certification Course. This syllabus provides a logical, structured sequence that maximizes learning and meets 14 CFR part 141 training time requirements. Training times must be increased slightly to meet 14 CFR part 61 requirements for students training under those rules.

COURSE CONCEPT

The Commercial Pilot Flight Training Course 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.

COURSE ELEMENTS

The course includes the latest FAA pilot certification requirements and a maximum of student-oriented instruction. The syllabus and support materials not only provide necessary information, but also guide the student through the course in a logical manner.

PREFLIGHT ORIENTATION

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

AIRPLANE PRACTICE

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

POSTFLIGHT EVALUATION

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

LESSON TIMES

Lesson times are specified as a guide to meeting the 14 CFR part 141 training requirements for the Commercial Pilot. Under the building block concept, however, the student must achieve a specific level of proficiency before starting the next lesson. Lessons may be combined or repeated as needed based on the progress made by the student. It is imperative that the instructor and student periodically review the student's overall progress and determine that the training requirements are consistently being met.

STUDENT STAGE CHECKS AND END OF COURSE CHECK

Stage checks measure the student's accomplishments during each stage of training. This procedure provides close supervision of training and another opinion on the student's progress. An examination of the building-block theory of learning will show that it is extremely important for progress and proficiency to be satisfactory before the student enters a new stage of training. Therefore, the next stage should not begin until the student successfully completes the current stage. Failure to follow this progression may defeat the purpose of the stage check and lead to overall course breakdown.

STUDENT INFORMATION

COURSE ENROLLMENT

To be enrolled in this course:

- You must hold a current private pilot certificate with instrument rating.
- Be concurrently enrolled, have completed ATD Flight Systems Commercial Pilot Ground course or passed your Commercial Pilot Knowledge test with an 80% or higher.

REQUIREMENTS FOR GRADUATION

To obtain a graduation certificate for the 14 CFR Part 141 Commercial Pilot Flight Course, the applicant must:

A. Be at least 18 years of age;
B. Hold a Private Pilot certificate with Instrument Rating;
C. Be able to read, speak, write, and understand the English language;
D. Complete all flight training requirements; and
E. Hold a valid FAA medical certificate

GRADING INSTRUCTIONAL LESSONS

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

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

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

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

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

RECORDING SOLO LESSONS

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

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

SP = STUDENTPRACTICE

I = INCOMPLETE

GRADING NOTES

All completed solo lessons should be graded as Student Practice.

The student did not complete all the pilot operations listed on the lesson sheet.

1. When an instructional lesson is graded unsatisfactory, only those pilot operations graded as "5" must be repeated to standards during the next lesson.

2. When any lesson is graded incomplete, the pilot operations not performed must be completed prior to attempting the pilot operations for the next lesson.

TSA ALIEN FLIGHT STUDENT PROGRAM RECORDS

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

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

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

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

Course Time Allocation Table

STAGE NO.	LESSON	FLIGHT TIME								GROUND TIME
		DUAL	SOLO	INST	DUAL X_C	SOLO X_C	NIGHT	FTD	TOTAL	DISCUSSION
I	1	2.0		0.5	2.0				2.0	0.5
I	2	1.5					1.5		1.5	0.5
I	3	2.0		0.5	2.0		2.0		2.0	0.5
I	4		2.0				2.0		2.0	0.5
I	5		3.0			3.0	3.0		3.0	0.5
I	6		5.0			5.0			5.0	0.5
I	7		5.0			5.0			5.0	0.5
I	8		5.0			5.0			5.0	0.5
I	9		5.0			5.0			5.0	0.5
I	10		5.0			5.0			5.0	0.5
I	11		5.0			5.0			5.0	0.5
I	12		5.0			5.0			5.0	0.5
I	13		5.0			5.0			5.0	0.5
I	14		5.0			5.0			5.0	0.5
I	15		3.5			3.5			3.5	0.5
I	16	2.0							2.0	0.5
I	17		3.5			3.5			3.5	0.5
STG I CHECK	18	2.0							2.0	1.0
STG I TOTALS		9.5	57.0	1.0	4.0	55.0	8.5		66.5	9.5
II	19		1.5						1.5	0.5
II	20	2.0		2.0				2.0	2.0	0.5
II	21	2.0		2.0				2.0	2.0	0.5
II	22	2.0		2.0				2.0	2.0	0.5
II	23	2.0		2.0				2.0	2.0	0.5
II	24	2.0		2.0				2.0	2.0	0.5
II	25	2.0		2.0				2.0	2.0	0.5
II	26	2.0						2.0	2.0	0.5
II	27	2.0						2.0	2.0	0.5
II	28	2.0						2.0	2.0	0.5
II	29	2.0						2.0	2.0	0.5
II	30	2.0						2.0	2.0	0.5
II	31	2.0						2.0	2.0	0.5
II	32	2.0						2.0	2.0	0.5
II	33	2.0						2.0	2.0	0.5
II	34	2.0						2.0	2.0	0.5
II	35	1.5							1.5	0.5
II	36		1.5						1.5	0.5
II	37	1.5							1.5	0.5
II	38	1.5							1.5	0.5
STG II CHECK	39	2.0		0.3					2.0	1.0
STG II TOTALS		30.5	3.0	12.3				24.0	33.5	11.0

STAGE NO.	LESSON	FLIGHT TIME								GROUND TIME
		DUAL	SOLO	INST	DUAL X_C	SOLO X_C	NIGHT	FTD	TOTAL	DISCUSSION
III	40	1.5		0.2					1.5	0.5
III	41	1.5		0.5					1.5	0.5
III	42		1.5						1.5	0.5
III	43	1.5							1.5	0.5
III	44		1.5						1.5	0.5
III	45	1.5							1.5	0.5
III	46	1.5							1.5	0.5
III	47		1.5						1.5	0.5
III	48	2.0			2.0				2.0	0.5
III	49	1.5							1.5	0.5
III	50	1.5							1.5	0.5
STG III CHECK	51	1.5							1.5	1.5
STG III TOTALS		14.0	4.5	0.7	2.0				18.5	7.0
EOC CHECK	52	1.5		0,2					1.5	1.5
COURSE TOTALS		55.5	64.3	14.2	6.0	55.0	8.5	24.0	120.0	29.0
FAA 141 REQIREMENTS		55.0	10.0	10.0	4.0		5.0	24.0	120.0	

Note: The individual lesson times shown on this table are for Instructor/student guidance only. They are not mandatory for each lesson.

STAGE I

STAGE OBJECTIVE:

During this stage, the student will complete the dual cross-country and solo night requirements for the Commercial Pilot rating. They will also complete cross-countries to build time and experience for the Commercial Pilot rating.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will demonstrate an increased knowledge in cross-country planning and flight procedures.
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STAGE II

STAGE OBJECTIVE:

During this stage, the student will learn the basics of Complex aircraft operation and the commercial maneuvers in the simulator. They will also perform the Commercial flight maneuvers in an aircraft.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will demonstrate commercial pilot proficiency as outlined in the current FAA Commercial Pilot Practical Test Standards.

STAGE III

STAGE OBJECTIVE:

During this stage the student will gain proficiency in flying a complex aircraft and get their complex endorsement. They will also gain proficiency in performing the Commercial Pilot maneuvers in preparation of the Commercial Pilot Practical Test.

STAGE COMPLETION STANDARDS:

The student will demonstrate proficiency in operating a complex aircraft. At the completion of this stage the student will be able to perform commercial flight operations to the current FAA Commercial Pilot Practical Test Standards.

Stage 1 **Flight Lesson 1** **Dual – Cross-Country**

Lesson Objectives
- The student will review VFR Cross-Country skills including the demonstration of simulated emergency procedures in - reparation for solo-cross country flights.
- The flight will be at least two hours in duration and include a straight-line distance of 100 Nautical Miles from the original departure point.

Review	**Grade**	**Grade**	**Grade**
Preflight Preparation			
- Cross-Country Flight Planning	_____	_____	_____
- Performance and Limitations	_____	_____	_____
- National Airspace System	_____	_____	_____
- Weather Information	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Crew Resource Management	_____	_____	_____
- Density Altitude Considerations	_____	_____	_____
- Engine Starting, Taxi, Before Tack-Off Check	_____	_____	_____
- High Density Altitude Operations	_____	_____	_____
Inflight Operations			
- Radio Communications	_____	_____	_____
- ATC Light Signals	_____	_____	_____
- Radio Navigation and Radar Services	_____	_____	_____
- Pilotage and Dead Reckoning	_____	_____	_____
- Diversion and Lost Procedures	_____	_____	_____
- Power Settings	_____	_____	_____
- Mixture Leaning	_____	_____	_____
- Radio Facility Shutdown	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Low Fuel Supply	_____	_____	_____
- Adverse Weather	_____	_____	_____
- Airframe and Powerplant Icing	_____	_____	_____
- Emergency Decent	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Wake Turbulence Avoidance	_____	_____	_____
- Emergency Equipment and Survival Gear	_____	_____	_____
Unfamiliar Airports			
- Traffic Patterns	_____	_____	_____
- Uncontrolled Airport	_____	_____	_____
- UNICOM Equipped Airports	_____	_____	_____
- Controlled Airports	_____	_____	_____
- Operations in Heavy Traffic	_____	_____	_____
- Operations at Sod or Unimproved Fields	_____	_____	_____
- CTAF Procedures	_____	_____	_____
- Airport and Runway Markings and Lighting	_____	_____	_____

Full Panel Instrument

- Straight and Level Flight		_____			_____			_____	
- Climbs		_____			_____			_____	
- Descents		_____			_____			_____	
- Standard Rate Turns		_____			_____			_____	
- VOR Navigation		_____			_____			_____	
- GPS Navigation	_____			_____			_____		
- Use of Radar Vectors		_____			_____			_____	
Lesson Grade / Date		_____	_____		_____	_____		_____	_____
Flight Time / Briefing Time		_____	_____		_____	_____		_____	_____
CFI / Student Initials		_____	_____		_____	_____		_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will demonstrate the ability to act as pilot in command on a cross-country flight of at least two hours to include a straight-line distance of more than 100 nautical miles from the original departure point.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

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Stage 1 **Flight Lesson 2** **Dual – Local / Night**

Lesson Objectives
- The student will be introduced to night flying operations and the special precautions required for flight at night.
- Review emergency procedures appropriate to night operations.

Review	**Grade**	**Grade**	**Grade**
- Normal Take-Offs and Climbs	_____	_____	_____
- Normal Approaches and Landings	_____	_____	_____
- Go-Around	_____	_____	_____
- Steep Turns	_____	_____	_____
- Unusual Attitudes	_____	_____	_____
- Maneuvering during Slow Flight	_____	_____	_____
- Simulated Emergency Procedures	_____	_____	_____
Introduce			
- Night Preflight Preparation	_____	_____	_____
- Aircraft Lighting and Equipment	_____	_____	_____
- Aeromedical Factors	_____	_____	_____
- Physiological Aspects of Night Flight	_____	_____	_____
- Personal Equipment Recommended	_____	_____	_____
- Engine Starting, Taxi, Before Take-Off Check	_____	_____	_____
- Night VFR References	_____	_____	_____
- Lost procedures	_____	_____	_____
- Night Scanning / Collision Avoidance	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student will demonstrate knowledge of and the precautions and the procedures appropriate to flying at night
- The student will be evaluated based on the exercises of sound judgment and on his/her ability to command the aircraft during the flight.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

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Stage 1 **Flight Lesson 3** **Dual – Cross-Country / Night**

Lesson Objectives
- During this lesson, the student will learn night cross-country procedures, including preflight planning, navigation, emergencies, and the use of unfamiliar airports.
- The flight will be at least two hours in duration and include a straight-line distance of more than 100 nautical miles form the original departure point

Review	**Grade**	**Grade**	**Grade**
- Aeromedical Factors and Physiological Aspects	_____	_____	_____
- Aircraft lighting and Equipment	_____	_____	_____
- Minimum Equipment List	_____	_____	_____
- Engine Starting, Taxi, Before Take-Off Check	_____	_____	_____
- Normal Take-Offs and Climbs	_____	_____	_____
- Go-Around	_____	_____	_____
- Unfamiliar Airports	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Adverse Weather	_____	_____	_____
- Wake turbulence Avoidance	_____	_____	_____
- Low Fuel Supply	_____	_____	_____
- Airframe and Powerplant Icing	_____	_____	_____
Full Panel Instrument			
- Straight and Level Flight	_____	_____	_____
- Climbs and Descents	_____	_____	_____
- Standard Rate Turns	_____	_____	_____

Introduce

Night Preflight Preparation

- Cross-Country Flight Planning	_____	_____	_____
- Weather Information	_____	_____	_____
- Preflight Inspection	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Crew Resource Management	_____	_____	_____
- Airport and Runway Marking and Lighting	_____	_____	_____
- Runway Incursion Avoidance	_____	_____	_____

Night Navigation

- Night Cross-Country Procedures	_____	_____	_____
- Radio Navigation and Radar Services	_____	_____	_____
- Pilotage and Dead Reckoning	_____	_____	_____
- Diversion and Lost Procedures	_____	_____	_____

Lesson Grade / Date	_____	_____	_____	_____	_____	_____
Flight Time / Briefing Time	_____	_____	_____	_____	_____	_____
CFI / Student Initials	_____	_____	_____	_____	_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- Successful completion of the lesson is indicated by the student's demonstration to the correct operating procedures for the night cross-country flights.
- The flight will be at lest 2 hours in duration and include a straight-line distance of more than 100 nautical miles from the original departure point.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

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Stage 1 **Flight Lesson 4** **Solo – Local/ Night**

Lesson Objectives
- This lesson provides night solo practice so the student may gain proficiency and confidence in the night environment.

Review	**Grade**	**Grade**	**Grade**
- Maneuvering during slow flight	_____	_____	_____
- Constant Altitude Turns	_____	_____	_____
- Takeoffs and Landings(10 T/O and Landings at Airport with Operating Control Twr)	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- This lesson is complete when the student has conducted 2 hours of solo night flights. During the flights, the student should attempt to gain proficiency in takeoff and landing procedures at an airport with an operating control tower in the night environment.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 1 **Flight Lesson 5** **Solo – Cross-Country / Night**

Lesson Objectives
- The student's proficiency in night operations is reviewed and practiced in this lesson.
- During this lesson, the student should acquire increased knowledge of radio navigation during cross-country flights. The flight will include a landing at a point more than 50 nautical miles from the original departure point.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by the Instructor			
- Cross-Country Flight Planning	_____	_____	_____
- Weather Information	_____	_____	_____
- Night Operation Considerations	_____	_____	_____
- Preflight Preparations	_____	_____	_____
- Cockpit Management	_____	_____	_____
Night Navigation			
- Night Cross-Country Procedures	_____	_____	_____
- Radio Navigation and Radar Services	_____	_____	_____
- Pilotage and Dead Reckoning	_____	_____	_____
- Crew Resource Management	_____	_____	_____
- Airport and Runway Markings and Lighting	_____	_____	_____
- Runway Incursion Avoidance	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student will show added skill in cross-country planning by selecting optimum cruising altitudes and appropriate checkpoints for a flight with a landing at a point more than 50 nautical miles from the original departure point.
- Demonstrate ability to accomplish the assigned night cross-country flight.
- During the postflight evaluation, the student will thoroughly explain the operational and safety considerations associated with night cross-country flying.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 6** **Solo(Dual) – Cross-Country**

Lesson Objectives
- This and the following flights are provided to develop the student's cross-country proficiency and confidence.
- These lessons may also be utilized for addition dual instruction necessary for the end-of course flight check and FAA practical test

Review	**Grade**	**Grade**	**Grade**
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Cross-Country Flight Assigned by the Instructor	_____	_____	_____
- Crew Resource Management	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Dead Reckoning	_____	_____	_____
- Pilotage	_____	_____	_____
- VOR Navigation	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student will show added skill in cross-country planning by selecting optimum cruising altitudes and appropriate check-points for a flight with a landing at a point more than 50 nautical miles from the original departure point.
- Demonstrate fuel planning by accurately calculating fuel burn and provisions for an adequate reserve upon landing. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the listed areas of operation and tasks.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 7** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This lesson develops the student proficiency in Cross-country flights in an unfamiliar area. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
- VOR Navigation	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted a solo cross-country to include a landing 50 nautical miles from the original starting point. The student should attempt to gain proficiency in cross-country operations and the use of unfamiliar airports. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 8** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This lesson develops the student proficiency in Cross-country flights in an unfamiliar area. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
- VOR Navigation	_____	_____	_____
- GPS Navigation	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted a solo cross-country to include a landing 50 nautical miles from the original starting point
- The student should attempt to gain proficiency in the accurate tracking of selected VOR radials and GPS bearings. If the lesson is used for dual instruction the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 9** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This lesson provides increased proficiency and broadens the student's cross-country experience. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- VOR Navigation	_____	_____	_____
- Use of uncontrolled Airspace	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when eh student has conducted a solo Cross-country to include a landing 50 nautical miles from the original starting point. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 10** **Solo (Dual) – Cross-Country**

Lesson Objectives

- The student should acquire increased knowledge of radio navigation during cross-country flights. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- VOR Navigation	_____	_____	_____
- GPS Navigation	_____	_____	_____
- Use of Controlled Airport	_____	_____	_____
- Use of Uncontrolled Airport	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student realize increased confidence and proficiency in the use of radio aids and navigation techniques over unfamiliar terrain in a flight which includes a landing at a point more than 50 nautical miles from the original departure point. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 11** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This Cross-country flight is used to build the students skills in the use of pilotage and dead-reckoning navigation. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a landing at a point more than 50 nautical miles from the original departure point.
- The student's level of proficiency will be determined by comparing the revised ETA to the ATA at each checkpoint. The differences should not be greater than ±5 minutes. The estimate for the destination should be ±10 minutes. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 12** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This Cross-country flight is used to build the students skills in the use of pilotage and dead-reckoning navigation. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a landing at a point more than 50 nautical miles from the original departure point.
- The student's level of proficiency will be determined by comparing the revised ETA to the ATA at each checkpoint. The differences should not be greater than ±5 minutes. The estimate for the destination should be ±10 minutes. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 Flight Lesson 13 Solo (Dual) – Cross-Country

Lesson Objectives

- This Cross-country flight is used to build the students skills in the use of pilotage and dead-reckoning navigation. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a landing at a point more than 50 nautical miles from the original departure point.
- The student's level of proficiency will be determined by comparing the revised ETA to the ATA at each checkpoint. The differences should not be greater than ±5 minutes. The estimate for the destination should be ±10 minutes. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 14** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This Cross-country flight is used to build the students skills in the use of pilotage and dead-reckoning navigation. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a landing at a point more than 50 nautical miles from the original departure point.
- The student's level of proficiency will be determined by comparing the revised ETA to the ATA at each checkpoint. The differences should not be greater than ±5 minutes. The estimate for the destination should be ±10 minutes. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 15** **Solo (Dual) – Cross-Country**

Lesson Objectives

- This Cross-country flight is used to build the students skills in the use of pilotage and dead-reckoning navigation. The flight will include a landing more than 50 nautical miles from the original starting point. This lesson may also be utilized for additional dual instruction to meet the proficiency requirements for the End-of-Course flight check and FAA practical test.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a landing at a point more than 50 nautical miles from the original departure point.
- The student's level of proficiency will be determined by comparing the revised ETA to the ATA at each checkpoint. The differences should not be greater than ±5 minutes. The estimate for the destination should be ±10 minutes. If the lesson is used for dual instruction, the student should demonstrate increased proficiency in the tasks or areas of operation reviewed.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 Flight Lesson 16 Dual – Cross-Country

Lesson Objectives
- During this lesson, the student will continue to practice cross-country planning and accurate flying. The flight will include a landing more than 50 Nautical miles from the original starting point.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- VOR Navigation	_____	_____	_____
- GPS Navigation	_____	_____	_____
- Use of Controlled Airport or Uncontrolled Airport	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a landing at a point more than 50 nautical miles from the original departure point demonstrating increased proficiency by accurately adhering to the preplanned navigation log..
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 **Flight Lesson 17** **Solo – Cross-Country**

Lesson Objectives

- The purpose of this lesson is to build the student's experience and meet the long cross-country requirements. Therefore the flight must include a minimum of three points, one of which is at least more than 250 nautical miles straight-line distance from the original starting point.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight Assigned by Instructor			
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
- VOR Navigation	_____	_____	_____
- GPS Navigation	_____	_____	_____
- Use of Controlled Airport	_____	_____	_____
- Use of Uncontrolled Airport	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The lesson is complete when the student has conducted a solo flight cross-country flight, which includes a minimum of 3 points, one of which must be at a point more than 250 nautical miles in a straight-line distance from the original departure point.
- During the preflight orientation and postflight evaluation, the student should be able to flight plan accurately making use of the applicable FAA publications and weather analysis information.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 1 Flight Lesson 18 Dual – Cross-Country / Stage Check

Lesson Objectives

- The objective of this stage check, conducted by the chief flight instructor, assistant chief flight instructor or, a designated check instructor, is to evaluate the student's understanding of VFR cross-country procedures and to determine the student's ability to perform these procedures and the proficiency level of at commercial pilot.

Review	**Grade**	**Grade**	**Grade**
Cross-Country Flight			
- Preflight Preparation	_____	_____	_____
- National Airspace System	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Crew Resource Management	_____	_____	_____
- VOR Navigation	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
- Cruise Procedures	_____	_____	_____
- Use of Unfamiliar Airports	_____	_____	_____
- Airport and Runway Markings and Lighting	_____	_____	_____
- Radio Communications	_____	_____	_____
- ATC Light Signals	_____	_____	_____
- Runway Incursion Avoidance	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Low Fuel Supply	_____	_____	_____
- Lost Procedures	_____	_____	_____
- Turbulence	_____	_____	_____
- Adverse Weather	_____	_____	_____
- Airframe and Powerplant Icing	_____	_____	_____
- Diversion	_____	_____	_____
- Radio and Instrument Failure	_____	_____	_____
- Radio Facility Shutdown	_____	_____	_____
- High Density Altitude Operations	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will display a complete understanding of VFR cross-country planning and flight procedures. The student will show the ability to operate safely in the national airspace system and use good judgment consistently.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

_____
_____
_____
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_____

Stage 2 **Flight Lesson 19** **Solo – Local**

Lesson Objectives
- Provide the student with the opportunity to practice basic flight maneuvers to further develop coordination and airplane control in preparation for introduction to the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
- Power-Off stalls	_____	_____	_____
- Power-On stalls	_____	_____	_____
- Maneuvering during Slow-Flight	_____	_____	_____
- Normal Takeoffs and Landings	_____	_____	_____
- Private Pilot Ground Reference Maneuvers Assigned by the Instructor	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- This lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning and performance of each maneuver.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 2 **Flight Lesson 20** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Provide the student with the opportunity to practice IFR approaches to further develop coordination and airplane control in preparation for introduction to the complex aircraft.
- The following 6 lessons are to get the student back to instrument current and proficient.

Review	**Grade**	**Grade**	**Grade**
- VOR Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- ILS Approaches	_____	_____	_____
- IFR Procedures	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning and performance of each instrument approach.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 2 **Flight Lesson 21** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Provide the student with the opportunity to practice IFR approaches to further develop coordination and airplane control in preparation for introduction to the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
- VOR Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- ILS Approaches	_____	_____	_____
- IFR Procedures	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning and performance of each instrument approach.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 2 **Flight Lesson 22** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Provide the student with the opportunity to practice IFR approaches to further develop coordination and airplane control in preparation for introduction to the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
- VOR Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- ILS Approaches	_____	_____	_____
- IFR Procedures	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning and performance of each instrument approach.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 2 **Flight Lesson 23** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Provide the student with the opportunity to practice IFR approaches to further develop coordination and airplane control in preparation for introduction to the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
- VOR Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- ILS Approaches	_____	_____	_____
- IFR Procedures	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning and performance of each instrument approach.
- Maintain altitude ±150 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 2 **Flight Lesson 24** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Provide the student with the opportunity to practice IFR approaches to further develop coordination and airplane control in preparation for introduction to the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
- VOR Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- ILS Approaches	_____	_____	_____
- IFR Procedures	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning and performance of each instrument approach.
- Maintain altitude ±100 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 2 **Flight Lesson 25** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Provide the student with the opportunity to practice IFR approaches to further develop coordination and airplane control in preparation for introduction to the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
- VOR Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- ILS Approaches	_____	_____	_____
- IFR Procedures	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student is Instrument current and proficient.
- Maintain altitude ±100 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 2 **Flight Lesson 26** (Airplane or AATD) **Dual – Local / Complex Aircraft**

Lesson Objectives

- The objective of this lesson is to introduce the student to the complex aircraft including systems and basic flight operations.
- The use of high altitude systems will be introduced, if applicable to the airplane to be used for the practical test.

Introduce

	Grade	Grade	Grade
Preflight Prep and Ground Operations			
- Certificates and Documents	_____	_____	_____
- Operation of Systems	_____	_____	_____
- Minimum Equipment list	_____	_____	_____
- Performance and Limitations	_____	_____	_____
- Use of Checklists	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Preflight Inspection	_____	_____	_____
- Engine Starting and Taxi	_____	_____	_____
- Before Takeoff Check	_____	_____	_____
Takeoff and Landings			
- Use of Retractable Landing Gear and Flaps	_____	_____	_____
- Normal and Crosswind	_____	_____	_____
- Climbs and Descents	_____	_____	_____
- Go-Around	_____	_____	_____
Cruise Procedures			
- Power Settings and Mixture Leaning	_____	_____	_____
- Use of Constant-Speed Propeller & Effects Upon Aircraft Performance	_____	_____	_____
Postflight Procedures			
- After landing	_____	_____	_____
- Parking	_____	_____	_____
High Altitude Operations			
- Supplemental Oxygen	_____	_____	_____
- Pressurization	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student should display and working knowledge of the airplane systems.
- The student should exhibit at least private pilot proficiency in the performance of basic flight operations.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

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_____

Stage 2 **Flight Lesson 27** (Airplane or AATD) **Dual – Local / Complex Aircraft**

Lesson Objectives
- Review basic flight orientation
- Introduce and practice emergency procedures, attitude instrument flying, and takeoff and landings in the complex aircraft.
- Develop the necessary proficiency to safely act as a pilot in command in the aircraft.

Review	**Grade**	**Grade**	**Grade**
- Use of Checklists	_____	_____	_____
- Preflight Inspection	_____	_____	_____
- Performance and Limitations	_____	_____	_____
- Take-Offs and Landings	_____	_____	_____
- Go-Around	_____	_____	_____
- Power Settings and Mixture Leaning	_____	_____	_____
- Use of Constant-Speed Propeller and Effects Upon Aircraft Performance	_____	_____	_____
- Use of Landing Gear and Flaps	_____	_____	_____
- Climbs and Descents	_____	_____	_____
- Constant Altitude Turns	_____	_____	_____
- Maneuvering During Slow-Flight	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Systems and Equipment Malfunctions	_____	_____	_____

Introduce

Takeoff and Landings

- Short-Field	_____	_____	_____
- Soft-Field	_____	_____	_____
- At Maximum Authorized Take-Off Weight	_____	_____	_____
- Combined Procedures	_____	_____	_____
- 180 Accuracy	_____	_____	_____

Full Panel Instrument

- Straight and Level Flight	_____	_____	_____
- Climbs and Climbing Turns	_____	_____	_____
- Descents and Descending Turns	_____	_____	_____
- Standard Rate Turns	_____	_____	_____
- Recovery From Unusual Flight Attitudes	_____	_____	_____
- Maneuvering during Slow-Flight	_____	_____	_____

Lesson Grade / Date	_____	_____	_____	_____	_____	_____
Flight Time / Briefing Time	_____	_____	_____	_____	_____	_____
CFI / Student Initials	_____	_____	_____	_____	_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student should be thoroughly familiar with the flight characteristics, systems, and emergency procedures associated with the complex airplane.
- The student will demonstrate pilot-in-command proficiency.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

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Stage 2 **Flight Lesson 28** **Dual – Local / Complex Aircraft**
(Airplane or AATD)

Lesson Objectives
- The student will perform the pilot-in-command responsibilities to increase familiarity with the complex airplane prior to the stage check.

Review	**Grade**	**Grade**	**Grade**
- Preflight Inspection	_____	_____	_____
- Cruise Procedures	_____	_____	_____
- Power Settings and Mixture Leaning	_____	_____	_____
- Climbs	_____	_____	_____
- Descents	_____	_____	_____
- Constant Altitude Turns	_____	_____	_____
- Maneuvering During Slow-Flight	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Short-Field Takeoff/Landings	_____	_____	_____
- Soft-Field Takeoff/Landings	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- During the flight, the student should attempt to increase proficiency in the smooth and accurate performance of the listed flight maneuvers in the complex airplane.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

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Stage 2 **Flight Lesson 29** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- Review performance maneuvers and slow flight to further develop student skills in flying the airplane near its limits.
- Continue to practice performance landings and takeoffs
- Additional practice with stalls and stall recovery during all phases of flight.

Review	**Grade**	**Grade**	**Grade**
- Flight at Slow Airspeeds with Realistic Distractions	_____	_____	_____
- Recognition of and Recovery from Stalls Entered from Straight and Level flight & from Turns	_____	_____	_____
- Spin Awareness	_____	_____	_____
- Collision Avoidance	_____	_____	_____
- Short-Field Takeoffs / Landings	_____	_____	_____
- Soft-Field Takeoffs / Landings	_____	_____	_____

Introduce

Demonstrated Stalls

- Secondary Stall	_____	_____	_____
- Accelerated Maneuver Stall	_____	_____	_____
- Cross-Controlled Stall	_____	_____	_____
- Elevator Trim Stall	_____	_____	_____

Lesson Grade / Date	_____	_____	_____	_____	_____	_____
Flight Time / Briefing Time	_____	_____	_____	_____	_____	_____
CFI / Student Initials	_____	_____	_____	_____	_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will display increased proficiency during all maneuvers by maintaining altitude ±150, heading ±10°, airspeed ±10 knots, and bank ±15°.
- The student will demonstrate the correct procedures for soft and short field landings by picking a point on the runway and landing not more than 100 feet beyond the selected point.

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Stage 2 **Flight Lesson 30** **Dual – Local**
(Airplane or AATD)

Lesson Objectives
- This lesson provides a review of basic ground reference maneuvers.
- Steep turns and chandelles are introduced to begin developing precise airplane control when operating near the performance limits of the airplane.
- Additional practice in stall and spin recognition and recovery procedures will be provided.

Review	**Grade**	**Grade**	**Grade**
- Maneuvering During Slow Flight	_____	_____	_____
- Flight at Slow Airspeeds with			
- Realistic Distractions	_____	_____	_____
- Recognition of and Recovery from Stalls Entered from Straight and Level flight & From Turns	_____	_____	_____
- Spin Awareness	_____	_____	_____
- Simulated Emergency Procedures	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Systems and Equipment Malfunctions	_____	_____	_____
- Private Pilot Ground Reference Maneuvers Assigned by Instructor	_____	_____	_____
Demonstrated Stalls			
- Secondary Stall	_____	_____	_____
- Accelerated Maneuver Stall	_____	_____	_____
- Cross-Controlled Stall	_____	_____	_____
- Elevator Trim Stall	_____	_____	_____
Introduce			
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The lesson is complete when the student can perform basic ground reference maneuvers while maintaining a specified altitude and ground track
- The Student will display an understanding of the entry, performance, and recovery from, steep turns and chandelles as well as display increased knowledge of a stall and spin recognition and recovery.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

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Stage 2 **Flight Lesson 31** **Dual – Local**
(Airplane or AATD)

Lesson Objectives
- The student will develop a basic understanding of the hazards associated with low-level wind shear and wake turbulence.
- Lazy eights and eights-on-pylons are introduced to present the student with an added challenge in precision flight maneuvers.

Review	**Grade**	**Grade**	**Grade**
- Chandelles	_____	_____	_____
- Normal Takeoffs and Landings	_____	_____	_____
- Crosswind Takeoffs and landings	_____	_____	_____
- Low-Level Wind Shear	_____	_____	_____
Introduce			
- Lazy Eights	_____	_____	_____
- Eights-On-Pylons	_____	_____	_____
- Wake Turbulence Avoidance	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student should show increased proficiency in the review maneuvers by demonstrating correct entry and recovery procedures and increased coordination during the performance of each maneuver.
- The student also will demonstrate an understanding of the hazards related to low level wind shear and wake turbulence, as well as the important performance elements of lazy eights, and eights-on-pylons.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 2 **Flight Lesson 32** (Airplane or AATD) **Dual – Local**

Lesson Objectives
- The student will work to gain proficiency through review of the listed maneuvers.

Review	**Grade**	**Grade**	**Grade**
- Steep Turns			
- Chandelles	_____	_____	_____
- Lazy Eights	_____	_____	_____
- Eights-On-Pylons	_____	_____	_____
- Maneuvering During Slow flight	_____	_____	_____
- Short-Field takeoffs and landings	_____	_____	_____
- Soft-Field takeoffs and landings	_____	_____	_____
- Power-off Stalls	_____	_____	_____
- Power-off Stalls	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- This lesson is complete when the student has conducted the assigned flight. During the lessons the student should attempt to minimize the transition and setup time between each maneuver.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

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Stage 2 **Flight Lesson 33** (Airplane or AATD) **Dual – Local**

Lesson Objectives

- During this lesson the student is provided with a review of commercial maneuvers, and attitude instrument flying.

Review	**Grade**	**Grade**	**Grade**
- Steep Turns			
- Chandelles	_____	_____	_____
- Lazy Eights	_____	_____	_____
- Eights-On Pylons	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
Full and Partial Panel Instrument			
- Straight and Level Flight	_____	_____	
- Standard Rate Turns	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Maneuvering During Slow Flight	_____	_____	_____
- Recovery From Unusual Flight Attitudes	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will demonstrate increased proficiency in the listed commercial maneuvers and display competency in the instrument maneuvers according to the standards outlined in the current FAA instrument pilot practical test standards.

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Stage 2 **Flight Lesson 34** **Dual – Local**
(Airplane or AATD)

Lesson Objectives
- During this lesson the student is provided with a review of commercial maneuvers, attitude instrument flying, and emergency operations.

Review	**Grade**	**Grade**	**Grade**
- Short and Soft Field Takeoffs	_____	_____	_____
- Short and Soft Field Landings	_____	_____	_____
- Maneuvering during slow flight	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
Full and Partial Panel Instrument			
- Straight and Level Flight	_____	_____	
- Standard Rate Turns	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Maneuvering During Slow Flight	_____	_____	_____
- Recovery From Unusual Flight Attitudes	_____	_____	_____
- Emergency Operations	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will demonstrate increased proficiency in the listed commercial maneuvers and display competency in the instrument maneuvers according to the standards outlined in the current FAA instrument pilot practical test standards.

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Stage 2 **Flight Lesson 35** **Dual – Local**

Lesson Objectives
- This lesson provide the student with the opportunity to review the listed flight maneuvers to increase proficiency.

Review	**Grade**	**Grade**	**Grade**
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Lazy Eight's	_____	_____	_____
- Eights-On-Pylons	_____	_____	_____
- Short and Soft Field Take-Offs	_____	_____	_____
- Short and Soft Field Landings	_____	_____	_____
- Aeronautical Decision Making and Judgment	_____	_____	_____
- Cockpit Management	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- This lesson is complete when the student has conducted the assigned solo flights developing additional proficiency in the listed maneuvers.
- Maintain altitude ±100 feet, heading ± 10°, and airspeed ±10 knots.

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Stage 2 **Flight Lesson 36** **Solo – Local**

Lesson Objectives
- The objective of this lesson is to provide the student with the opportunity to review and practice flight maneuvers to gain added proficiency.

Review	**Grade**	**Grade**	**Grade**
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Maneuvering During Slow-Flight`	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Lazy Eight's	_____	_____	_____
- Eight's on Pylons	_____	_____	_____
- Short Field Takeoff and Landings	_____	_____	_____
- Soft Field Takeoff and Landings	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- This lesson is complete when the student has conducted the assigned maneuvers and/or procedures with increased accuracy and coordination.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 2 **Flight Lesson 37** **Dual – Local**

Lesson Objectives
- This lesson is to review and evaluate the student's knowledge and proficiency in the operation of the tasks within the lesson. The flights provide an opportunity to practice the listed maneuvers and procedures in preparation for the stage check.

Review	**Grade**	**Grade**	**Grade**
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Maneuvering during Slow-Flight`	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Lazy Eight's	_____	_____	_____
- Eight's on Pylons	_____	_____	_____
- Short Field Takeoff and Landings	_____	_____	_____
- Soft Field Takeoff and Landings	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- This lesson is complete when the student demonstrates the ability to safely and accurately perform each on the assigned maneuvers and/or procedures. The student will demonstrate sufficient knowledge and proficiency to progress to Flight Lesson 38.
- Maintain altitude ±100 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 2 **Flight Lesson 38** **Dual – Local**

Lesson Objectives
- This lesson is a review and evaluation of the student's knowledge and proficiency in the operation of the aircraft. The flight provides an opportunity to practice the listed maneuvers and procedures in preparation for the stage check.

Review	**Grade**	**Grade**	**Grade**
- Preflight Preparation	_____	_____	_____
- Preflight Inspection	_____	_____	_____
- Cruise Procedures	_____	_____	_____
- Power Settings and Mixture Leaning Climbs	_____	_____	_____
- Descents	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Maneuvering During Slow-Flight	_____	_____	_____
- Flight at Slow Airspeeds with Realistic Distractions	_____	_____	_____
- Recognition of and recovery from Stalls Entered from Straight and Level flight and from Turns	_____	_____	_____
- Spin Awareness	_____	_____	_____
- Aeronautical Decision Making and Judgment	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Postflight Procedures	_____	_____	_____
Take-Off's and Landings			
- Short Field Takeoff and Climb	_____	_____	_____
- Soft Field Takeoff and Climb	_____	_____	_____
- Short Field Approach and Landing	_____	_____	_____
- Soft Field Approach and Landing	_____	_____	_____
- Go-Around	_____	_____	_____
Demonstrated Stalls			
- Secondary Stall	_____	_____	_____
- Accelerated Maneuver Stall	_____	_____	_____
- Crossed Control Stall	_____	_____	_____
- Elevator Trim Stall	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Low Fuel Supply	_____	_____	_____
- Fire in Flight	_____	_____	_____
- Turbulence	_____	_____	_____
- Adverse Weather	_____	_____	_____
- Airframe and Powerplant Icing	_____	_____	_____
- Diversion	_____	_____	_____
- Radio and Instrument Failure	_____	_____	_____
- Emergency Descent	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Emergency Equipment and Survival Gear	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student demonstrates the ability to safely act as pilot-in-command of the aircraft. The student will demonstrate sufficient knowledge and proficiency to pass the Stage II Check in Flight Lesson 39.
- Maintain altitude ±100 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 2 **Flight Lesson 39** **Dual – Local / Stage Check**

Lesson Objectives
- This stage checks to be conducted by the chief flight instructor, assistant chief flight instructor, or a designated check instructor, is to evaluate the student's pilot-in-command qualifications in the aircraft.

Review	**Grade**	**Grade**	**Grade**
- Certificates and Documents	_____	_____	_____
- Performance and Limitations	_____	_____	_____
- Operation of Systems	_____	_____	_____
- Minimum Equipment Lists	_____	_____	_____
Flight Operations			
- Preflight Inspection	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Aeronautical Decision Making and Judgment	_____	_____	_____
- Normal Takeoff and Landings	_____	_____	_____
- Crosswind Takeoff and Landings	_____	_____	_____
- Go-Around	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Cruise Procedures	_____	_____	_____
- Power Settings and Mixture Leaning	_____	_____	_____
- Constant Speed Propeller Effects on - Aircraft Performance	_____	_____	_____
Full and Partial Panel Instrument			
- Straight and Level flight	_____	_____	_____
- Descents	_____	_____	_____
- Climbs	_____	_____	_____
- Turns	_____	_____	_____
- Recovery from Unusual Attitudes	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Fire in Flight	_____	_____	_____
High Altitude Operations			
- Supplemental Oxygen	_____	_____	_____
- Pressurization	_____	_____	_____
Postflight Procedures			
- After Landing	_____	_____	_____
- Parking and Securing	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson and Stage II are complete when the student can demonstrate commercial pilot maneuvers as outlined in the current FAA Commercial Pilot Practical Test Standards.

NOTES:

Stage 3 **Flight Lesson 40** **Dual – Local**

Lesson Objectives
- Full panel instrument procedures are reviewed to maintain the student's instrument scan rate and reinforce the ability to interpret instrument indications.
- Normal and emergency procedures are reviewed to increase judgment and performance.

Review	**Grade**	**Grade**	**Grade**
- Straight and Level Flight	_____	_____	_____
- Standard Rate Turns	_____	_____	_____
- Steep Turns	_____	_____	_____
- Constant Airspeed Climbs	_____	_____	_____
- Constant Airspeed Descents	_____	_____	_____
- Recovery from unusual Attitudes	_____	_____	_____
Takeoffs and Landings			
- Normal	_____	_____	_____
- Short Field	_____	_____	_____
- Soft Field	_____	_____	_____
- Crosswind	_____	_____	_____
- Go-Around	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Emergency Descent	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Collision Avoidance	_____	_____	_____
- Low-level Wind Shear	_____	_____	_____
- Wake Turbulence	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student's performance and knowledge of each maneuver should meet the minimum standards outlined in the current FAA Commercial Pilot Practical Test Standards.

NOTES:

Stage 3 Flight Lesson 41 Dual – Local

Lesson Objectives
- Full and partial panel instrument flight, VOR Navigation, instrument approaches and commercial maneuvers are reviewed in this lesson.
- The student should increase their proficiency in instrument maneuvers and procedures. In addition, the student should demonstrate improvement in performance of the commercial maneuvers.

Review	**Grade**	**Grade**	**Grade**
Full and Partial Panel			
- Straight and Level Flight	_____	_____	_____
- Climbs and Descents	_____	_____	_____
- Recovery from Unusual Attitudes	_____	_____	_____
- VOR orientation and Tracking	_____	_____	_____
- Nonprecision Approaches (Partial Panel)	_____	_____	_____
- ILS Approach	_____	_____	_____
Commercial Maneuvers			
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student performance during instrument maneuvers and procedures should meet the minimum standards outlined in the current FAA Instrument Pilot Practical Test Standards. Improvement should be evident in the performance of commercial maneuvers.
- Maintain altitude ±100 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than ¾ scale deflection.

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Stage 3 **Flight Lesson 42** **Solo – Local**

Lesson Objectives
- Flight 42 is a solo review lessons designed to increase the student's proficiency in commercial maneuvers.

Review	**Grade**	**Grade**	**Grade**
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- Lessons 42 is complete when the student has conducted the assigned solo flights.
- During the flight, the student should attempt to perform lazy-eights with symmetrical loops and eights-on-pylons, chandelles, and steep turns with smoothness and coordination.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 3 **Flight Lesson 43** **Dual – Local**

Lesson Objectives
- The objective is to determine the student's progression in mastery of the commercial maneuvers.
- Correct any areas of faulty performance.

Review	**Grade**	**Grade**	**Grade**
- Lazy Eights	_____	_____	_____
- System Equipment Malfunctions	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student should demonstrate an understanding of the important performance elements of each maneuver including the correct entry, execution, and recovery techniques.
- Maintain altitude ±100 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 3 Flight Lesson 44 Solo – Local

Lesson Objectives
- The student should practice each flight maneuver assigned with emphasis on those maneuvers that were poorly or inaccurately performed during the previous flight.

Review	Grade	Grade	Grade
- Normal Take-Offs and Landings	_____	_____	_____
- Crosswind Take-Offs and Landings	_____	_____	_____
- Short-Field Take-Offs and Landings	_____	_____	_____
- Soft-Field Take-Offs and Landings	_____	_____	_____
- Maneuvering During Slow Flight	_____	_____	_____
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- Flight 44 is complete when the student has accomplished a solo review of each of the listed maneuvers.
- Proficiency should, with few exceptions, meet the minimum standards outlined in the current Commercial Pilot PTS.

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Stage 3 Flight Lesson 45 Dual – Local/Complex Aircraft

Lesson Objectives
- This lesson will introduce the student to the Complex aircraft. The student will take the lessons learned in the Simulator and apply them to flying the aircraft.

Review	**Grade**	**Grade**	**Grade**
Preflight Preparations and Ground Operations			
- Certificates and Documents	_____	_____	_____
- Operation of Systems	_____	_____	_____
- Performance and Limitations	_____	_____	_____
- Use of Check Lists	_____	_____	_____
- Preflight Inspection`	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Engine Starting	_____	_____	_____
- Taxiing	_____	_____	_____
- Before Takeoff Check	_____	_____	_____
Takeoffs and Landings			
- Normal	_____	_____	_____
- Crosswind	_____	_____	_____
- Short-Field	_____	_____	_____
- Soft-Field	_____	_____	_____
- 180 Accuracy	_____	_____	_____
VFR Flight Maneuvers			
- Maneuvering During Slow Flight	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Go-Around	_____	_____	_____
Postflight Procedures			
- After Landing	_____	_____	_____
- Parking and Securing	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student should demonstrate familiarity with the flight characteristics, systems, and emergency procedures listed in the lesson.
- Performance of the commercial maneuvers should indicate good understanding of the correct procedures. Maneuvers or procedures that do not meet commercial standards will be assigned for additional practice.
- Demonstrate a high degree of proficiency in assigned instrument procedures.
- Maintain altitude ±150 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 3 **Flight Lesson 46** **Dual – Local / Complex Aircraft**

Lesson Objectives
- This lesson provides the student with an opportunity to practice commercial maneuvers and procedure as identified in previous lessons as areas needing review.
- Review maneuvers and procedures in the complex aircraft.

Review	**Grade**	**Grade**	**Grade**
Preflight Preparations and Ground Operations			
- Certificates and Documents	_____	_____	_____
- Operation of Systems	_____	_____	_____
- Performance and Limitations	_____	_____	_____
- Use of Checklists	_____	_____	_____
- Preflight Inspection`	_____	_____	_____
- Cockpit Management	_____	_____	_____
- Engine Starting	_____	_____	_____
- Taxiing	_____	_____	_____
- Before Take-Off Check	_____	_____	_____
Takeoff and Landings			
- Normal	_____	_____	_____
- Crosswind	_____	_____	_____
- Short-Field	_____	_____	_____
- Soft-Field	_____	_____	_____
VFR Flight Maneuvers			
- Maneuvering During Slow Flight	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Emergency Approach and Landing	_____	_____	_____
- Go-Around	_____	_____	_____
Postflight Procedures			
- After Landing	_____	_____	_____
- Parking and Securing	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student should demonstrate familiarity with the complex aircraft flight characteristics, systems, and emergency procedures listed in the lesson.
- Performance of the commercial maneuvers should indicate good understanding of the correct procedures. Maneuvers or procedures which do not meet commercial standards will be assigned for additional practice
- Maintain altitude ±100 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 3 **Flight Lesson 47** **Solo – Local**

Lesson Objectives
- During flight 47, the student should practice the flight maneuvers in order to correct any faulty performance areas from the previous dual flight.

Review	**Grade**	**Grade**	**Grade**
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
- Short-Field Takeoffs and Landings	_____	_____	_____
- Soft-Field Takeoffs and Landings	_____	_____	_____
- Maneuvering during Slow Flight	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- Flights 47 is complete when the student has accomplished a solo review of each of the listed maneuvers and has attempted to correct any areas of faulty performance.
- Maintain altitude ±100 feet, heading ± 10°, and airspeed ±10 knots.

NOTES:

Stage 3 Flight Lesson 48 Dual – Cross-Country / Complex Aircraft

Lesson Objectives
- This lesson is an evaluation of the student's ability to conduct Cross-country flight operations in a complex aircraft. The flight will include a landing point more than 50 nautical miles from the original departure point.

Review	**Grade**	**Grade**	**Grade**
- Preflight Preparation	_____	_____	_____
- Cross-Country Flight Planning	_____	_____	_____
- Weather Information	_____	_____	_____
- Cockpit Management	_____	_____	_____
- High Density Altitude Operations	_____	_____	_____
Navigation			
- Radio Navigation and Radar Services	_____	_____	_____
- Pilotage	_____	_____	_____
- Dead Reckoning	_____	_____	_____
- Diversion	_____	_____	_____
- Lost Procedures	_____	_____	_____
- Cruise Procedures	_____	_____	_____
- Power Settings	_____	_____	_____
- Mixture Leaning	_____	_____	_____
- Radio Communications	_____	_____	_____
- ATC Light Signals	_____	_____	_____
High Altitude Operations			
- Supplemental Oxygen	_____	_____	_____
- Pressurization	_____	_____	_____
Simulated Emergency Procedures			
- Systems and Equipment Malfunctions	_____	_____	_____
- Low Fuel Supply	_____	_____	_____
- Turbulence	_____	_____	_____
- Adverse Weather	_____	_____	_____
- Airframe and Powerplant Icing	_____	_____	_____
Unfamiliar Airports			
- Traffic Patterns	_____	_____	_____
- UNICOM-Equipped Field	_____	_____	_____
- Controlled Field	_____	_____	_____
- Operations at Sod or Unimproved Fields	_____	_____	_____
- CTAF Procedures	_____	_____	_____
- Airport Runway Markings and Lighting	_____	_____	_____
Full Panel Instrument			
- Climbs	_____	_____	_____
- Climbing Turns	_____	_____	_____
- Descents	_____	_____	_____
- Descending Turns	_____	_____	_____
- Standard Rate Turns	_____	_____	_____
- Recovery from Unusual Attitudes	_____	_____	_____
- VOR Navigation	_____	_____	_____
- GPS Navigation	_____	_____	_____
- Use of Radar Vectors	_____	_____	_____
- Radio Facility Shutdown	_____	_____	_____

Lesson Grade / Date	_____	_____		_____	_____		_____	_____
Flight Time / Briefing Time	_____	_____		_____	_____		_____	_____
CFI / Student Initials	_____	_____		_____	_____		_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- This lesson is complete when the student demonstrates the ability to safely act as pilot-in-command of the complex aircraft during cross-country flights.
- In addition, the student will display a basic competency in the associated normal and emergency procedures.
- Maintain altitude ±100 feet, heading ± 10°, airspeed ±10 knots, and course deviation less than full scale deflection.

NOTES:

Stage 3 **Flight Lesson 49** **Dual – Local / Complex Aircraft**

Lesson Objectives
- The objective is to determine the student's progress in preparation for the commercial pilot practical test.

Review	**Grade**	**Grade**	**Grade**
- Preflight Preparation and Ground Operations	_____	_____	_____
- Use of Checklists	_____	_____	_____
- Postflight Procedures	_____	_____	_____
Simulated Emergency Procedures			
- Engine Failure	_____	_____	_____
- Systems and Equipment Malfunctions	_____	_____	_____
Flight Maneuvers			
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
- Short-Field Takeoffs and Landings	_____	_____	_____
- Soft-Field Takeoffs and Landings	_____	_____	_____
- Go-Around	_____	_____	_____
- Flight at Slow Airspeeds with Realistic Distractions	_____	_____	_____
- Recognition of and Recovery from Stalls Entered from Straight Flight and from Turns	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The lesson is complete when the student can perform each of the listed maneuvers and procedures according to the minimum performance standards outlined in the current FAA Commercial Pilot Practical Test Standards.

NOTES:

Stage 3 **Flight Lesson 50** **Dual – Local**

Lesson Objectives
- Flights 50 review all the flight maneuvers. Here, the student will gain not only proficiency, but also the confidence and ability to complete the flight test accurately and successfully.

Review	**Grade**	**Grade**	**Grade**
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
- Maneuvers During Slow Flight.	_____	_____	_____
- Power-Off Stalls	_____	_____	_____
- Power-On Stalls	_____	_____	_____
Takeoff and Landings			
- Crosswind	_____	_____	_____
- Short-Field	_____	_____	_____
- Soft-Field	_____	_____	_____
- 180 Accuracy	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- The student will demonstrate proficiency and competence required for commercial pilot certification by performing the outlined maneuvers with smoothness and coordination.
- Performance tolerances should meet or exceed those outlined in the current FAA Commercial Pilot Practical Test Standards.

NOTES:

Stage 3 **Flight Lesson 51** **Dual – Local / Stage Check**

Lesson Objectives
- This stage check is to be conducted by the chief flight instructor, assistant chief flight instructor, or a designated check instructor to evaluate the student's abilities to perform the commercial maneuvers smoothly and precisely.

Review	**Grade**	**Grade**	**Grade**
Flight Maneuvers			
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
- Stalls	_____	_____	_____
- Spin Awareness	_____	_____	_____
- Maneuvering During Slow Flight	_____	_____	_____
Takeoff and Climbs			
- Normal	_____	_____	_____
- Crosswind	_____	_____	_____
- Short-Field	_____	_____	_____
- Soft-Field	_____	_____	_____
Approaches and Landings			
- Normal	_____	_____	_____
- Crosswind	_____	_____	_____
- Short-Field	_____	_____	_____
- Soft-Field	_____	_____	_____
- Go-Around	_____	_____	_____
- 180 Accuracy	_____	_____	_____
Postflight Procedures			
- After Landing Check Lists	_____	_____	_____
- Parking and Securing	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards
- All maneuvers will be performed according to the current FAA Commercial Pilot practical test standards.

NOTES:

_____
_____
_____
_____
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_____

Stage 3 **Flight Lesson 52** **Dual – Local / End-Of Course**

Lesson Objectives
- This flight check is to be conducted by the chief flight instructor, assistant chief flight instructor, or a designated check instructor will evaluate the student's instrument and commercial flight proficiency, as well as the ability to act safely and competently as Pilot in command.
- The student will be evaluated on their ability to control the aircraft accurately and smoothly while exercising sound judgment in decision making.

Review	**Grade**	**Grade**	**Grade**
VOR			
- Orientation	_____	_____	_____
- Interception	_____	_____	_____
- Tracking	_____	_____	_____
Simulated Emergency Procedures			
- Loss of Communications	_____	_____	_____
- Radio Failure	_____	_____	_____
- Instrument Failure	_____	_____	_____
- Engine Failure	_____	_____	_____
- Systems and Equipment Malfunctions	_____	_____	_____
- 180 Accuracy Landing	_____	_____	_____
Flight Maneuvers			
- Lazy Eights	_____	_____	_____
- Steep Turns	_____	_____	_____
- Chandelles	_____	_____	_____
- Eights-on-Pylons	_____	_____	_____
- Short-Field Take-Off and Landings	_____	_____	_____
- Soft-Field Take-Off and Landings	_____	_____	_____
- Go-Around	_____	_____	_____
- Flight at Slow-Airspeeds with Realistic Distractions	_____	_____	_____
- Recognition of and Recovery from Stalls Entered From Straight Flight and from Turns	_____	_____	_____
Postflight Procedures			
- After Landing Check Lists	_____	_____	_____
- Parking and Securing	_____	_____	_____
Lesson Grade / Date	_____ _____	_____ _____	_____ _____
Flight Time / Briefing Time	_____ _____	_____ _____	_____ _____
CFI / Student Initials	_____ _____	_____ _____	_____ _____

Postflight Briefing / Preview of Next Lesson
Completion Standards
- At the completion of this flight check, the student will display a complete understanding of VFR procedures. The student also will demonstrate the necessary knowledge, skill, and judgment to operate safely as pilot in command.
- The student's performance during each maneuver and procedure will exceed the minimum performance requirements outlined in the current FAA Commercial Pilot practical Test Standards.

NOTES:

_____
_____
_____


This is to certify that
_____
is enrolled in the Federal Aviation Administration
approved Commercial Pilot Flight Course
Conducted by ATD Flight Systems, LLC
Air Agency #Z1YS830K
ATD
FLIGHT SYSTEMS
_____
Date of Enrollment
_____
Andrew Waterland, Chief Instructor


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ATD
FLIGHT SYSTEMS
Date of Graduation
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