UNIVERSITY OF OKLAHOMA COMMERCIAL PILOT (ADVANCED) (2231) FLIGHT TRAINING SYLLABUS 2025-NOV-21

PREREQUISITES FOR ENROLLMENT IN THE FLIGHT PORTION OF THE COMMERCIAL PILOT COURSE: You must hold a private pilot certificate with an airplane category and single engine land rating and a medical certificate valid for at least third class privileges prior to enrolling in the flight portion of this course. You must also have an instrument airplane rating, or be concurrently enrolled in the University of Oklahoma Instrument Rating Course and earn your instrument airplane rating prior to completing this course.

COURSE OBJECTIVE: You will obtain the knowledge, skill and aeronautical experience to meet the requirements of 14 CFR, Section 141, Appendix D to earn a commercial pilot certificate with airplane single engine land rating.

COURSE POLICY: At the discretion of the instructor, students who progress rapidly within a specific stage, may within reasonable variances, continue to the next lesson with less time than is specified in the specific lesson curriculum, provided all content and completion standards are satisfactorily completed. Stage V, lessons one and two each must be a minimum of three hours duration. For the rest of the lessons, the time stated in the lesson is the approximate minimum time that a student would need to meet the lesson objectives and completion standards; not absolute required times. The lesson time could be slightly more or slightly less. These reduced hours must be included in other lessons to complete the total ground or flight time specified by category in the training course outline in order to satisfactorily complete the course.

At no time will a student be allowed to continue to the next stage without having successfully completed all of the lessons and the required tests or stage checks related to the completion of the previous stage. Flight training for this course will be done in accordance with the F.A.A approved syllabus. Deviations from the syllabus due to student training requirements, weather related factors, or other items as necessary will be allowed as long as the following requirements are met:

- The deviation is approved by the Chief/Asst Chief Flight Instructor.
- A notation will be made in the student's training record as to the lesson covered and the reason for the deviation.
- The student will complete all syllabus requirements before a graduation certificate is issued.

To satisfactorily complete the course of training, the student must meet all course objectives and completion standards. The student must complete the required ground training and pass the FAA Commercial Pilot Airplane Knowledge test prior to the completion of flight training.

EXPECTED ACCOMPLISHMENTS AND STANDARDS: To satisfactorily complete each Flight stage you must complete the lessons in that stage and pass the end of course stage check. Each lesson lists specific objectives and standards of completion.

CHECKS & TESTS: The flight training portion of the syllabus contains a quiz and a stage check flight at the end of Stage IV, V and X. The stage checks will be administered by the Chief/Assistant Chief Flight Instructor or check instructor approved by the FSDO. The Stage X check is the end of course stage check which will be equal in scope, depth and difficulty to the practical test defined by the FAA Commercial Pilot – Airplane Airman Certification Standards

STUDYING MANEUVERS

- 1. Refer to the maneuvers in the Airplane Flying Handbook to learn how to do the maneuver as well as common errors when attempting to execute the maneuvers.
- 2. Refer to the University of Oklahoma Supplementary Information for Flight Students & the POH to learn specifics of executing the maneuvers in the PA28-181 or C152.
- 3. Refer to the Commercial Pilot Airplane ACS to determine the standards to which you must accomplish the maneuvers to earn your Commercial Pilot Certificate.

Lesson Dual Solo Dual Night Night XC XC TAA Pre/Post			FLIG	HT LESSO	N TIME A	LLOCATION	ON TABLE	E		
1 2.0 2.0 0.5 2 2.0 0.5 3 1.0 0.5 4 2.0 0.5 5 1.0 0.5 6 2.0 0.5 7 1.0 0.5 8 2.0 0.5 9 1.0 0.5 10 2.0 0.5 11 1.0 0.5 12 2.0 2.0 0.5 13 1.0 0.5 14 1.0 0.5 0.5 15 2.0 2.0 2.0 0.5 16 3.0 3.0 0.5 17 2.0 2.0 2.0 0.5 18 3.0 0.5 0.5 19 1.0 0.5 0.5 20 1.0 0.5 0.5 21 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 0.5 25 1.0	Lesson	Dual	Solo	l .	1		1	TAA	Pre/Post	GI
2			•	-	STAC	GE IV	•	!		
3 1.0 0 0.5 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.1 1.0 0.5 1.	1	2.0		1					0.5	
4 2.0 0.5 5 1.0 0.5 6 2.0 0.5 7 1.0 0.5 8 2.0 0.5 9 1.0 0.5 10 2.0 0.5 11 1.0 0.5 12 2.0 2.0 0.5 13 1.0 0.5 14 1.0 0.5 15 2.0 0.5 16 3.0 3.0 0.5 17 2.0 2.0 2.0 0.5 18 3.0 0.5 0.5 19 1.0 0.5 0.5 20 1.0 0.5 0.5 21 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 0.5 25 1.0 0.5 0.5 26 QUIZ 0.5 0.5	2		2.0						0.5	
5 1.0 0.5 6 2.0 0.5 7 1.0 0.5 8 2.0 0.5 9 1.0 0.5 10 2.0 0.5 11 1.0 0.5 12 2.0 2.0 0.5 13 1.0 0.5 14 1.0 0.5 15 2.0 0.5 16 3.0 3.0 0.5 17 2.0 2.0 2.0 0.5 18 3.0 0.5 0.5 19 1.0 0.5 0.5 20 1.0 0.5 0.5 21 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 0.5 25 1.0 0.5 0.5 26 0.01Z 0.5 0.5	3	1.0							0.5	
6	4		2.0						0.5	
7 1.0 0 0.5 8 2.0 0.5 9 1.0 0.5 10 2.0 0.5 11 1.0 0.5 12 2.0 2.0 0.5 13 1.0 0.5 14 1.0 0.5 15 2.0 0.5 16 3.0 0.5 17 2.0 2.0 2.0 0.5 18 3.0 3.0 0.5 19 1.0 0.5 20 1.0 0.5 21 1.0 0.5 22 1.0 1.0 1.0 0.5 24 2.0 0.5 26 QUIZ	5	1.0							0.5	
8	6		2.0						0.5	
9 1.0 2.0 0.5 10 1.0 0.5 11 1.0 0.5 12 0.5 13 1.0 0.5 15 15 0.5 16 3.0 0.5 17 2.0 2.0 2.0 2.0 2.0 0.5 18 3.0 3.0 0.5 19 1.0 0.5 19 1.0 0.5 19 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	7	1.0							0.5	
110	8		2.0						0.5	
11 1.0 0.5 12 2.0 2.0 13 1.0 0.5 14 1.0 0.5 15 2.0 0.5 16 3.0 3.0 0.5 17 2.0 2.0 2.0 0.5 18 3.0 3.0 0.5 19 1.0 0.5 0.5 20 1.0 0.5 0.5 21 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 0.5 25 1.0 0.5 0.5 26 QUIZ 0.5 0.5	9	1.0							0.5	
12 2.0 2.0 0.5 13 1.0 0.5 14 1.0 0.5 15 2.0 0.5 16 3.0 2.0 2.0 17 2.0 2.0 2.0 18 3.0 0.5 19 1.0 0.5 20 1.0 0.5 21 1.0 1.0 22 1.0 1.0 23 1.0 3.0 24 2.0 0.5 25 1.0 0.5 26 QUIZ	10		2.0						0.5	
13 1.0 0.5 14 1.0 0.5 15 15 2.0 0.5 16 3.0 0.5 17 2.0 2.0 2.0 2.0 0.5 18 3.0 0.5 19 1.0 0.5 19 1.0 0.5 10 0	11	1.0							0.5	
14 1.0 0.5 15 2.0 0.5 16 3.0 0.5 17 2.0 2.0 2.0 18 3.0 0.5 19 1.0 0.5 20 1.0 0.5 21 1.0 1.0 22 1.0 1.0 23 1.0 3.0 24 2.0 0.5 25 1.0 0.5 26 QUIZ 27 1.0 0.5	12		2.0		2.0				0.5	
15	13	1.0							0.5	
16 3.0 3.0 0.5 17 2.0 2.0 2.0 0.5 18 3.0 3.0 0.5 19 1.0 0.5 20 1.0 0.5 21 1.0 1.0 22 1.0 1.0 23 1.0 3.0 24 2.0 0.5 25 1.0 0.5 26 QUIZ 0.5	14	1.0							0.5	
17 2.0 2.0 2.0 0.5 18 3.0 0.5 19 1.0 0.5 20 1.0 0.5 21 1.0 1.0 22 1.0 0.5 23 1.0 3.0 24 2.0 0.5 25 1.0 0.5 26 QUIZ 0.5	15		2.0						0.5	
18 3.0 3.0 0.5 19 1.0 0.5 20 1.0 0.5 21 1.0 1.0 0.5 22 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 25 1.0 0.5 26 QUIZ 0.5	16	3.0				3.0			0.5	
19 1.0 0.5 20 1.0 0.5 21 1.0 1.0 0.5 22 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 25 1.0 0.5 26 QUIZ	17		2.0		2.0		2.0		0.5	
20 1.0 0.5 21 1.0 1.0 0.5 22 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 25 1.0 0.5 26 QUIZ	18		3.0				3.0		0.5	
21 1.0 1.0 1.0 0.5 22 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 25 1.0 0.5 26 QUIZ	19	1.0							0.5	
22 1.0 1.0 0.5 23 1.0 3.0 0.5 24 2.0 0.5 25 1.0 0.5 26 QUIZ	20	1.0							0.5	
23 1.0 3.0 0.5 24 2.0 0.5 25 1.0 0.5 26 QUIZ 27 1.0 0.5	21		1.0		1.0				0.5	
24 2.0 0.5 25 1.0 0.5 26 QUIZ 27 1.0 0.5	22	1.0		1.0					0.5	
25 1.0 0.5 0.5 QUIZ 27 1.0 0.5	23		1.0	3.0					0.5	
26 QUIZ 27 10 05	24	2.0							0.5	
QUIZ 27 1.0 0.5	25		1.0						0.5	
										0.5
		1.0							0.5	0.5
Totals 18.0 22.0 4.0 5.0 3.0 5.0 0.0 13.0	otals	18.0	22.0	4.0	5.0	3.0	5.0	0.0	13.0	1.0

*Notes: By the completion of Stage X the student will have completed 10 solo takeoffs and landings at night (with each landing involving a flight with a traffic pattern) at an airport with an operating control tower. Any shortages in a category must be made up in Stages V and X.

Flight Lesson Time Allocation Table (continued)

Dual = Flight Instruction in an Airplane

Solo = Student Solo Flight in an Airplane

Dual Night = Flight Instruction in an Airplane at Night

Dual XC = Cross Country Flight Instruction in an Airplane

Solo XC = Student Solo Cross Country Flight in an Airplane

Dual INST. = Instrument Flight Instruction in an Airplane

Dual AATD = Instrument Instruction in an Advanced Aviation Training Device

Pre/Post = Pre & Post Flight Instruction

GI= Ground Instruction

Upon Completion of stage III lesson 3 the student will have made three solo takeoffs & landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower.

Upon Completion of stage III lesson 4 the student will have made 10-night takeoffs & landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.

UNIVERSITY OF OKLAHOMA

STAGE IV

STAGE OBJECTIVE

Stage IV provides instruction and practice in maneuvers required by the Commercial Pilot Airman Certification Standards. Increased experience and proficiency in night and cross country operations is also included.

STAGE COMPLETION STANDARD

At the completion of this stage, the student will demonstrate proficiency in the maneuvers listed in the Stage Check Lesson (lesson 27).

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI	☐ Short-Field ☐ Soft-Field
MIN 1.7								0.5		Simulated Emergency Procedures
2.0								0.5		Emergency Descent
2.0	ļ	<u> </u>	<u> </u>	<u> </u>				0.5	ļ	Emergency Approach and Landing
STAGE	IV FL	IGHT L	ESSON	N1 DU	AL-LO	CAL				System and Equipment Malfunctions
										☐ Fire in Flight
LESSO	N OBJ	ECTIVI	Ε:							COMPLETION STANDARDS:
_	ith the	introduc	tion and	l practic			w of basic rocedures			At the completion of this lesson, the student should be thoroughly familiar with the flight characteristics, systems, and emergency procedures associated with the airplane. The student will meet the standards in the Private Pilot Airman Certification Standards.
Lesson	Review									INSTRUCTOR NOTES:
	Г	Preflis	ht Pren	arations	and Pro	cedures				
			_	al Inspe						
				-		ance and	Limitatio	ns		
				Landing						
			Norr	_						
			Go-A	Around 1	From Re	ected (Ba	alked) Lar	nding		
		Power	Setting	gs and M	lixture L	eaning				
		Use o	f Flaps							
		Climb	S							
		Desce	nts							
] Steep	Turns							
] Post F	light Pr	ocedure	S					
Lesson	Introdu	iction								
] Mane	uvering	During	Slow Fli	ght Stalls				
] Pow			-				
			_	er-On						
		_								

☐ Takeoffs and Landings

	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD		Pre Post
	MIN 1.7								0.5
	2.0								0.5
SSON (OBJE n will A 28-1 T: eview	provide 81 and	solo exits syste	xperienc ems.	ce to allo		dent to in	crea	se f
☐ Visual Ins			_						
					Iixture L	annina			
			Setting S Desce		nxture L	eaning			
		Steep '							
			vering	During	Slow Fli	ght			
		Stalls] p	- · · · · · · · · · · · · · · · · · · ·					
			Powe						
		Takeot			(S				
			Shor	_	,0				
] Soft-	Field					
OMPLE	ETION	N STAN	DARD	S:					
							ducted the proficien		

and accurate performance of the listed flight maneuvers in the airplane. The tasks will be performed to the standards of the Private Pilot Airman Certification

Standards.

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	

STAGE IV FLIGHT LESSON 3 DUAL-LOCAL

LESSON OBJECTIVE:

This lesson provides a review of basic ground reference maneuvers, S-turns, turns around a point and rectangular course. Slow flight and emergency procedures are also reviewed. Steep turns and chandelles are introduced to begin developing precise airplane control when operating near the performance limits of the airplane. In addition, accelerated stalls are introduced.

CONTENT:

Lesson	w	OX/	Ċ,
17699011	1.	CV	٧.

ew	
\Box	Private Pilot Ground Reference Maneuvers Assigned by the
	Instructor
	☐ S-Turns
	☐ Turns Around a Point
	☐ Rectangular Course
	Maneuvering During Slow Flight
	Simulated Emergency Procedures
	☐ Emergency Descent
	☐ Emergency Approach and Landing
	☐ System and Equipment Malfunctions
duc	4ion
ouuc	uon
	Steep Turns
\Box	Chandelles

Lesson Introduction

Steep Turns
Chandelles
Accelerated Stalls
Steep Spiral

COMPLETION STANDARDS:

The lesson is complete when the student can perform the maneuvers in Lesson Review to the standards listed in the Private Pilot Airman Certification standards. The student will display the correct understanding of the necessary control inputs during entry to, performance of, and recovery from steep turns, chandelles and steep spirals. The student also will display the knowledge of the cause and recovery from accelerated stalls.

INSTRUCTOR NOTES	S:		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 1.7							0.5	
	2.0							0.5	

STAGE IV FLIGHT LESSON 4 SOLO-LOCAL

LESSON OBJECTIVE:

The student will attempt to gain proficiency through the review of the listed maneuvers.

CONTENT:

Lesson Review

Steep Turns
Chandelles
Maneuvering During Slow Flight
Short-Field Takeoffs and Landings
Soft-Field Takeoffs and Landings
Power-Off Stalls
Power-On Stalls
Steep Spiral

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the assigned flight. During the lesson, the student should attempt to minimize the transition and setup time between each maneuver.

STUDENT NOTES:		
-		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7					0.2			0.5	
1.0					0.2			0.5	
							's planning		
he purp nd intro ecuracy	duce si approa	hort and	soft fie	eld take		landings	s plannings, the pow		
he purp	oduce si approa	hort and	soft fie	eld take	offs and	landings	-		
he purp nd intro ccuracy	oduce si approa	hort and ch and la	soft fio	eld take	offs and	landings	-		
he purp nd intro ccuracy	oduce si approa	hort and	soft fid anding a	eld take	offs and	landings	-		
he purp nd intro ccuracy	oduce si approa	hort and la	soft fid anding a	eld take	offs and	landings	-		

Lesson Introduction

Maximum Performance (Short-Field) Takeoff and Climb
Soft-Field Takeoff and Climb
Short-Field Approach and Landing
Soft-Field Approach and Landing
Power Off 180 Degree Accuracy Approach and Landing
Steep Spiral

COMPLETION STANDARDS:

The student will perform the tasks above to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Steep Turns: Altitude +/- 200 feet, roll out heading +/- 20 degrees Chandelles: Roll out heading +/- 15

degrees Short Field Landing: Touchdown point -0 +150 feet Power off Accura Landing: Touchdown point -0 +400 feet Steep Spirals: Airspeed +/- 15 knots
INSTRUCTOR NOTES:

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 1.7							0.5	
	2.0							0.5	

STAGE IV FLIGHT LESSON 6 SOLO - LOCAL

LESSON OBJECTIVE:

The following lesson provides the student with the opportunity to review the listed flight maneuvers to increase proficiency.

CONTENT:

Lesson Review

Steep Turns
Chandelles
Steep Spiral
Short-Field Takeoffs and Landings
Soft-Field Takeoffs and Landings

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the assigned solo flight. During the lesson, the student should attempt to gain proficiency in the listed maneuvers.

STUDENT NOTES	5 ;		
			-
			-
			-
			-

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	
CAGE	IV FLI	GHT L	ESSON	7 <u>DU</u>	AL - LO	CAL			
OL									

CONTENT:

previous solo lessons.

T	esson	Pα	.,;	Δ1	
	esson	Ke	VΙ	eı	и

Chandelles
Normal Takeoffs and Landings
Power Off 180 Degree Accuracy Approach and Landing
Crosswind Takeoffs and Landings
Wake Turbulence Avoidance

Lesson Introduction

Lazy Eights
Eights-On-Pylons

COMPLETION STANDARDS:

The student will perform the tasks to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Chandelles: Roll out heading +/- 15 degrees Power Off Accuracy Landings: Touchdown point -0 +400 feet Lazy Eights: 180 degree point altitude/airspeed within 200 feet/15 knots of entry Altitude/airspeed Eights on Pylons: Pylons maintained within one wing width.

INSTRUCTOR NOTES:	

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 1.7							0.5	
	2.0							0.5	
STAGE	IV FLI	IGHT L	ESSON	18 SO	LO – LO	OCAL			

LESSON OBJECTIVE:

The student is provided with the opportunity to review and practice flight maneuvers to gain added proficiency.

CONTENT:

Lesson Review

Ш	Power-Off Stalls
	Power-On Stalls
	Maneuvering During Slow Flight
	Steep Turns
	Chandelles
	Lazy Eights
	Steep Spiral
	Eights-On-Pylons
	Short-Field Takeoffs and Landings
\Box	Soft-Field Takeoffs and Landings

COMPLETION STANDARDS:

This lesson will be completed when the student has conducted the assigned solo flight. During flight, the student should attempt to increase accuracy and coordination on the listed maneuvers.

TUDENT NOTES:		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	
STACE	IV EI	сит і	ESSON	io Di	J AL - L (CAI.			
SIAGE	IV FL.	IGHT L	ESSU	19 <u>DC</u>	AL - LU	<u>JCAL</u>			
LESSO	N OBJ	ECTIVE	E:						
							_		
					mine the rforman		prepared	ness for	the st
CHECK at	ia corre	ct ally al	eas of f	auity pe	Tiomiano				
CONTI	ENT:								
<u>.</u>	ь.								
Lesson	Review								
	Г] Syster	ns and I	Eauipme	ent Malfu	inctions			
		Lazy I							
] Chand	-						
] Steep	Turns						
] Steep	Spiral						
] Eights	-On-Py	lons					
		_		-	eds with	Realistic	Distractio	ns	
		Power							
		-	Off Sta						
	L	-	erated S						
	L	Power	Off 18	0 Degre	e Accura	cy Appro	ach and L	anding	
COMPI	LETIO	N STAN	DARD	S:					
The stud	dent wil	l perforr	n the ta	sks to t			e Comme		
					-	-	zy Eights		
							tude/airsp		
Aititude	+/- 130) ieet Ko	out r	_		egrees St	eep Spiral	: Airspe	ea +/-

knots Eights on Pylons: Pylons maintained within one wing span Power Off Accuracy Landing: Touch down point -0 +300 feet

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 1.7							0.5	
	2.0							0.5	

STAGE IV FLIGHT LESSON 10 SOLO - LOCAL

LESSON OBJECTIVE:

This flight is a solo review lesson designed to increase the student's proficiency.

CONTENT:

Lesson Review

\sqcup	Lazy Eights
	Eights-On-Pylons
	Chandelles
	Steep Turns
	Steep Spiral
	Takeoffs and Landings
	☐ Normal
	Crosswind
	Maneuvering During Slow Flight

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the assigned solo flight. 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. In executing the steep spiral the student should attempt to adjust bank angle to maintain a constant distance from the selected point and adjust pitch to maintain a constant airspeed.

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
1.0		1.0						0.5	
1.0		1.0						0.5	

STAGE IV FLIGHT LESSON 11 <u>DUAL - LOCAL - NIGHT</u>

LESSON OBJECTIVE:

This lesson introduces the student to night flight operations and the differences encountered between day and night flight.

CONTENT:

Lesson	

☐ Night Ground Operations
☐ Aeromedical Factors
 Personal Equipment Recommended
☐ Night Flight Preparation
☐ Night Preflight Inspections
☐ Airport and Runway Markings and Lighting
☐ Takeoffs and Landings
☐ Normal
☐ Crosswind
☐ Stalls
☐ Power-Off
☐ Power-On
☐ Maneuvering During Slow Flight
☐ Steep Turns
☐ Simulated Emergency Procedures
☐ Emergency Approach and Landing (Simulated)
 Systems and Equipment Malfunctions
Go-Around From Rejected (Balked) Landing
- · · · · · · · · · · · · · · · · · · ·

COMPLETION STANDARDS:

This lesson is complete when the student can apply the knowledge and risk management standards of the Night Operations Task of the Private Pilot Airman Certification Standards. Execution of the maneuvers, takeoffs/landings and emergency procedures tasks will meet the standards of the Commercial Pilot Airman Certification Standards with the following exception: Steep Turns: Altitude +/- 200 feet, roll out heading +/-20 degrees

INSTRUCTOR N	OTES:		

Dual	Solo	Solo Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	2.0	2.0				*			1.0
	2.0	2.0				1			

^{*}Nldg = Solo Night landings at Airport with Operating Control Tower

STAGE IV FLIGHT LESSON 12 SOLO - LOCAL - NIGHT

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

Maneuvering During Slow Flight
Steep Turns
Takeoffs and Landings to a full stop
☐ Normal
☐ Crosswind
☐ Controlled Airports
UnControlled Airports

COMPLETION STANDARDS:

This lesson is complete when the student has conducted a solo night flight. During the flight, the student should attempt to gain proficiency in takeoffs and landings in the night environment. See NOTE in stage X lesson 12.

TUDENT NOTES:	•		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	

STAGE	IV FL	IGHT L	ESSON	N 13 <u>D</u>	UAL - L	OCAL			
LESSO	LESSON OBJECTIVE:								
The obje	The objective of Lesson 13 is to review ground and flight operations listed.								
CONTE	ENT:								
Lesson 1	Review								
		Groun	d Opera	ations					
			Certi	ficates a	and Docu	iments			
			Oper	ation of	Airplane	e Systems	;		
			Dete	rmining	Perform	ance and	Limitatio	ns	
			Use	of Checl	klists				
			Cock	pit Mar	agement	į			
] Visua	al Inspe	ction				
] Engi	ne Start	ing				
] Taxii	ng					
] Preta	keoff C	heck				
] Takeof	ffs and l	Landing	S				
			Norn	nal					
			Cros	swind					
		Climbs	s and D	escents					
] Steep [Turns						
		Go-Ar	ound F	rom Rej	ected (Ba	alked) La	nding		
		After-I	Landing	g Proced	lures				

COMPLETION STANDARDS:

At the completion of the flight, the student should display a working knowledge of airplane systems. Additionally, the student should perform the operations listed to the standards of the Commercial Pilot Airman Certification Standards with the following exception: Steep Turns: Altitude +/- 150 feet, roll out heading +/- 15 degrees

NSTRUCTOR NOT		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	

STAGE IV FLIGHT LESSON 14 <u>DUAL - LOCAL</u>

LESSON OBJECTIVE:

During this lesson, the student is provided with a review of listed flight procedures and emergency procedures and takeoffs and landings.

CONTENT:

Lesson Review

w	
_	
	Visual Inspection Determining Performance and Limitations
	Takeoffs and Landings
	☐ Normal
	Go-Around From Rejected (Balked) Landing
	Climbs Descents
	Steep Turns
	Maneuvering During Slow Flight
	Stalls
	☐ Power-Off
	☐ Power-On
	☐ Accelerated
	Takeoffs and Landings
	☐ Short-Field
	☐ Soft-Field
	Simulated Emergency Procedures
	☐ Emergency Descent
	☐ Emergency Approach and Landing
	System and Equipment Malfunctions
	Fire in Flight

COMPLETION STANDARDS:

At the completion of the flight, the student will perform the listed tasks to the standards of the Commercial Pilot Airman Certification Standards.

NSTRUCTOR	NOTES:		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 1.7							0.5	
	2.0							0.5	
STAGE	STAGE IV FLIGHT LESSON 15 SOLO - LOCAL								

LESSON OBJECTIVE:

This lesson provides solo practice of the flight maneuvers so that the student can acquire added proficiency.

CONTENT:

Lesson Review

Steep Turns
Chandelles
Lazy Eights
Steep Spiral
Eights-On-Pylons
Takeoffs and Landings
☐ Short-Field
☐ Soft-Field
Crosswind

COMPLETION STANDARDS:

The solo lesson is complete when the student has conducted the assigned flight. During the flight, the student should attempt to attain or maintain commercial pilot proficiency.

STUDENT NOTES:	

			_				_			☐ Airframe and Powerplant Icing			
Dual	Solo	Dual	Dual	Solo	Dual	Night	AATD	Pre	GI	☐ Planning to Alternate			
		Night	XC	XC	Inst.	LD.		Post		☐ Radio and Instrument Failure			
3.0		3.0	3.0					0.5		☐ Unfamiliar Airports			
3.0		3.0	3.0					0.5		☐ Traffic Patterns			
									<u> </u>	☐ FSS Field			
STAGE	IV FL	GHT L	ESSON	V 16 <u>D</u>	UAL - (CROSS-C	COUNTR	<u>Y - NIG</u>	<u>HT</u>	☐ UNICOM			
L EGGO!	NI OD II									☐ Equipped Field			
LESSO	A ORJI	ECTIVE	:							☐ Tower-Controlled Field			
This lesson is a review and evaluation of the student's cross-country skills. The flight						dent's cro	ss-country	Operations in Heavy Traffic					
will include a landing at a point more than 100 n.m. from the original departure					☐ CTAF Procedures								
point.			1					C	Î	☐ Airport and Runway Markings and Lighting			
										☐ High Density Altitude Operations			
CONTE	NT:									Radio Facility Shutdowns			
Lesson Introduction								COMPLETION STANDARDS:					
		Cross-	Country	y Groun	d Operat	ions				This lesson is complete when the student performs the listed tasks to the standards of			
			Cros	s-Count	ry Preflig	ght Planni	ing			the Commercial Pilot Airman Certification Standards			
			Obta	ining W	eather In	formation	n			INSTRUCTOR NOTES:			
			Cock	pit Mar	nagement	:				INSTRUCTOR NOTES.			
] Navig	ation										
			Pilot	age									
			Dead	l Recko	ning								
			VOR	l Naviga	ation								
			GPS	Naviga	tion								
] Use o	of Rada	r Vectors					·			
		Cruise	Proced	lures									
		Power	Setting	s and M	lixture L	eaning							
		Radio	Comm	unicatio	ns and A	ΓC Light	Signals						
] Simula	ited Em	nergency	Procedu	ires							
 System and Equipment Malfunctions 					nt Malfur	nctions							
			Low	Fuel Su	ipply								
			Lost	Procedu	ıres								

☐ Turbulence☐ Adverse Weather

Dual	Solo	Solo Night	Dual XC	Solo XC	Dual Inst.	Night LD.	SOCT LD.	Pre Post	GI
	2.0	2.0		2.0		*		0.5	
	2.0	2.0		2.0		1		0.5	

^{*}Nldg = Solo Night landings at Airport with Operating Control Tower

STAGE IV FLIGHT LESSON 17 SOLO - CROSS - COUNTRY NIGHT

LESSON OBJECTIVE:

This and the following solo cross-country flight are provided to develop the student's cross-country proficiency and confidence. This flight will include a landing at a point more than 50 n.m. from the original departure point and shall incorporate night operations into the cross-country procedures. All landings should involve a traffic pattern at an airport.

CONTENT:

Lesson	

Cross-Country Ground Operations
☐ Preflight Planning
Cross-Country Flight Assigned by the Instructor
☐ Dead Reckoning
☐ Pilotage
☐ VOR Navigation
GPS Navigation
Use of Tower-Controlled Airport

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 n.m. from the original departure point. Additionally, fuel planning will be accurate and allow for an adequate reserve. See NOTE in stage X lesson 12.

TUDENT NOT		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	3.0			3.0				0.5	
	3.0			3.0				0.5	

STAGE IV FLIGHT LESSON 18 SOLO - CROSS - COUNTRY

LESSON OBJECTIVE:

This lesson develops student proficiency in cross-country flights in an unfamiliar area. The flight will include a landing at a point more than 50 n.m. from the original departure point.

CONTENT:

Lesson Review

Cross-Country Ground Operations
Cross-Country Flight Assigned by the Instructor
☐ Dead Reckoning
☐ Pilotage
☐ VOR Navigation
☐ GPS Navigation
☐ Use of Tower-Controlled Airport
☐ Use of UNICOM-Equipped Airport

COMPLETION STANDARDS:

This lesson is complete when the student has conducted a solo cross-country to include a landing at a point more than 50 n.m. from the original departure point. The student should attempt to gain proficiency in cross-country operations and the use of unfamiliar airports.

STUDENT NOTES.		

CTUDENT NOTES.

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	

STAGE IV FLIGHT LESSON 19 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

During this lesson, the student is provided with a review of basic flight procedures along with the introduction and practice of emergency procedures, attitude instrument flying, and takeoffs and landings in the complex aircraft. In addition, this lesson will provide the student with the necessary proficiency to solo or act as pilot in command in the aircraft safely.

CONTENT:

Lesson Introduction

 ••••
Visual Inspection
Determining Performance and Limitations
Takeoffs and Landings
☐ Normal
Go-Around From Rejected (Balked) Landing
Climbs Descents
Steep Turns
Stalls
☐ Power-Off
☐ Power-On
☐ Accelerated
Takeoffs and Landings
☐ Short-Field
☐ Soft-Field
Simulated Emergency Procedures
☐ Emergency Descent
Emergency Approach and Landing
System and Equipment Malfunctions
☐ Fire in Flight

Maneuver	ing Du	ıring Sl	low Fli	ight

COMPLETION STANDARDS:

At the completion of this flight, the student will perform the listed tasks to the standards of the Commercial Pilot Airman Certification Standards.

STRUCTOR NO	, 125 .		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
0.7								0.5	
1.0								0.5	

STAGE IV FLIGHT LESSON 20 DUAL-LOCAL

☐ Fire in Flight

LESSON OBJECTIVE:

This lesson is a review and evaluation session. Here, the student will be asked to perform selected VFR precision flight maneuvers. The objective is to determine the student's VFR proficiency.

CONTENT:

Lesson Review

w	
	Ground Operations
	Certificates and Documents
	 Determining Performance and Limitations
	Operation of Airplane Systems
	☐ Visual Inspection
	☐ Cockpit Management
	Takeoffs and Landings
	☐ Normal
	☐ Crosswind
	☐ Go-Around From Rejected (Balked) Landing
	☐ Power Off 180 Degree Accuracy Approach and Landing
	☐ After-Landing Procedures
	Stalls
	☐ Power-Off
	☐ Power-On
	☐ Accelerated
	Cruise Procedures
	Power Settings and Mixture Leaning
	Simulated Emergency Procedures
	 System and Equipment Malfunctions

COMPLETION STANDARDS:

At the completion of this flight, the student should be thoroughly familiar with the flight characteristics, systems, and emergency procedures associated with the airplane. The listed tasks will be performed to the standards of the Commercial Pilot Airman Certification Standards with the following exception: Power Off Accuracy Landing: Touch down point -0 +300 feet

STRUCTOR	NOTES.		

Dual	Solo	Solo Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	1.0	1.0				*		0.5	
	1.0	1.0				1		0.5	

^{*}Nldg = Solo Night landings at Airport with Operating Control Tower

STAGE IV FLIGHT LESSON 21 SOLO - LOCAL - NIGHT

LESSON OBJECTIVE:

The object of this lesson is to increase the student proficiency in night operations. Night flight procedures, therefore, are reviewed and practiced in this session.

CONTENT:

Lesson Review

Steep Turns
Maneuvering During Slow Flight
Takeoffs and Landings

COMPLETION STANDARDS:

The student's increase in night proficiency to that of a commercial pilot will be evident during the postflight evaluation. The student will thoroughly explain the additional operational aspects and safety considerations which are associated with night flight. See NOTE in stage X lesson 12.

STUDENT NOTES:		
_		
_		
_		
-		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	SOCT LD.	Pre Post	GI
MIN 0.7								0.5	
1.0								0.5	

0.7									
1.0								0.5	
STAGE	IV FL	IGHT LI	ESSON	1 22 <u>DI</u>	J AL - L (OCAL .			
LESSO	N OBJI	ECTIVE	:						
This less	son is to	determi	ne the s	tudent's	ability to	o fly com	mercial m	aneuver	S.
CONTE	ENT:								
Lesson 1	Review								
		Lazy E Steep S Takeof Approx	vering Eights Spirals From Shorn Cross Norm Cross Norm Cross Shor Cross Cross Cross Goda	During Climbs nal swind t-Field nd Land nal swind t-Field Field	From Rej		ılked) Lar	nding	

COMPLETION STANDARDS:

INSTRUCTOR NOTES:

The student will perform the tasks to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Lazy Eights: 180 degree altitude/airspeed within 150 feet/15 knots of entry altitude/airspeed

_	

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 0.7							0.5	
	1.0							0.5	

STAGE IV FLIGHT LESSON 23 SOLO - LOCAL

LESSON OBJECTIVE:

This lesson provides solo practice of the flight maneuvers so that the student can acquire added proficiency.

CONTENT:

Lazy Eights
Chandelles
Eights-On-Pylons
Steep Spiral
Takeoffs and Landings
☐ Short-Field
☐ Soft-Field
Crosswind

COMPLETION STANDARDS:

The solo lesson is complete when the student has conducted the assigned flight. During the flight, the student should attempt to attain or maintain commercial pilot proficiency.

STUDENT NOTES:		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
Min 1.7								0.5	
2.0								0.5	

STAGE IV FLIGHT LESSON 24 DUAL - LOCAL

LESSON OBJECTIVE:

This lesson presents additional instruction in the chandelle, steep power turn, and steep spiral. Maximum performance takeoffs and landings are practiced to increase the student's proficiency in the takeoff and landing phases of flight.

CONTENT:

•		-		
	esson	ĸ	1771	AXX

\sqcup	Steep Turns
	Chandelles
	Steep Spiral
	Traffic Patterns
	Maximum Performance (Short-Field) Takeoff and Climb
	Soft-Field Takeoff and Climb
	Short-Field Approach and Landing
	Soft-Field Approach and Landing

COMPLETION STANDARDS:

The student will perform the tasks to the standards of the Commercial Pilot Airman Certification Standards.

INSTRUCTOR NOTES:	

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	Min 0.7							0.5	
	1.0							0.5	

STAGE IV FLIGHT LESSON 25 SOLO - LOCAL

LESSON OBJECTIVE:

This lesson provides solo practice of the flight maneuvers so that the student can acquire added proficiency.

CONTENT:

Lesson Review

Steep Turns
Chandelles
Steep Spiral
Eights On Pylons
Steep Spiral
Takeoffs and Landings
☐ Short-Field
☐ Soft-Field
Crosswind

COMPLETION STANDARDS:

The solo lesson is complete when the student has conducted the assigned flight. During the flight, the student should attempt to attain or maintain commercial pilot proficiency.

STUDENT NOTES:		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
									0.5
									0.5

STAGE IV FLIGHT LESSON 26 QUIZ

LESSON OBJECTIVE:

The student's knowledge of the maneuvers covered in this stage will be evaluated through a quiz.

The quiz will cover the following areas:

Slow Fli	ght and Stalls
Landing	S
	Short Field
	Soft Field
	180 degree Power-Off Accuracy
Maneuv	ers
	Steep Turns
	Chandelles
	Steep Spirals

COMPLETION STANDARDS:

The student should score at least 70% on the quiz. In addition, the instructor will review those questions missed with the student.

INSTRUCTOR NOTES:		

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 1.0								0.5	0.5
								0.5	0.5
1.0								0.5	0.5

STAGE IV FLIGHT LESSON 27 DUAL STAGE CHECK - VFR

LESSON OBJECTIVE:

This lesson is conducted by the chief instructor or assistant chief instructor or check instructor to determine the student's ability to fly the designated commercial maneuvers below.

Lesson Review

Chandelles
Eights-On-Pylons
Steep Turns
Stalls
☐ Power-On
☐ Power-Off
☐ Accelerated
Maneuvering During Slow Flight
Steep Spiral
Takeoffs and Climbs
☐ Normal
☐ Crosswind
☐ Short-Field
☐ Soft-Field
Approaches and Landings
☐ Normal
☐ Crosswind
☐ Short-Field
☐ Soft-Field
☐ Go-Around From Rejected (Balked) Landing
After Landing Procedures

COMPLETION STANDARDS:

The student will perform the flight maneuvers listed above in a PA28-181 to Commercial Pilot Airman Certification Standards with the following exceptions. Eights on Pylons: Holds pylon plus or minus one wind width using appropriate pivotal altitude avoiding slips and skids.

STRUCTOR NOT	. 25.		