UNIVERSITY OF OKLAHOMA COMMERCIAL PILOT (4552)
FLIGHT TRAINING SYLLABUS 2026-AUG-17

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

UNIVERSITY OF OKLAHOMA

STAGE X

STAGE OBJECTIVE

The objective of this stage is for the student to complete the course requirements and attain the proficiency level required of an instrument/commercial pilot.

STAGE COMPLETION STANDARD

At the completion of this stage, the student must be able to demonstrate all flight maneuvers and procedures at the proficiency level of an instrument/commercial pilot. The student will successfully complete the final stage tests and stage checks.

FLIGHT LESSON TIME ALLOCATION TABLE									
Lesson	Dual	Solo	Dual Night	Solo Night	Dual XC	Solo XC	Dual INST.	Pre/Post	GI
STAGE X									
1	1.0							0.5	
2	1.0							0.5	
3		2.0						0.5	
4	1.0							0.5	
5	2.0							0.5	
6		2.0						0.5	
7		1.0						0.5	
8	2.0							0.5	
9	3.0				3.0		2.6	0.5	
10		3.0				3.0		0.5	
11	1.0		1.0					0.5	
12		1.0		1.0				0.5	
13		1.0		1.0				0.5	
14		2.0						0.5	
15		1.0						0.5	
16	2.0							0.5	
17	2.0						1.6	0.5	
18		2.0						0.5	
19		1.0						0.5	
20	2.0						0.5	0.5	
21		2.0						0.5	
22		1.0						0.5	
23	1.0							0.5	
24	2.0							0.5	
23 QUIZ									0.5
24 STGCHK	1.5							0.5	1.5
Totals	21.5	19.0	1.0	2.0*	3.0	3.0	4.7	12.5	2.0
GRAND TOTALS** (IV, V, X)	63.5	57.0	8.0	7.0*	14.0	32.0	12.3	31.5	6.0
*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. **These are the minimum times in each flight category for course completion									

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
Solo Night = Student Solo Flight 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
TAA = Technologically Advanced Aircraft
Pre/Post = Pre & Post Flight Instruction
GI= Ground Instruction

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

STAGE X FLIGHT LESSON 1 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review of preflight preparation, preflight procedures, postflight procedures, basic flight maneuvers referencing the horizon, normal takeoff and landing, and slow flight. The student should begin developing precise airplane control.

CONTENT:

Lesson Review

- ☐ Preflight Preparation and Procedures
  - ☐ Certificates and Documents
  - ☐ Operation of Airplane Systems
  - ☐ Determining Performance and Limitations
  - ☐ Use of Checklists
  - ☐ Cockpit Management
  - ☐ Visual Inspection
  - ☐ Engine Starting
  - ☐ Taxiing
  - ☐ Pre-takeoff Check
  - ☐ Minimum Equipment List
  - ☐ Airport Operations
- ☐ Takeoffs and Landings
  - ☐ Normal Takeoff and Climb
  - ☐ Normal Approach and Landing
- ☐ Basic Flight Maneuvers
  - ☐ Straight and Level Flight
  - ☐ Straight Climbs and Climbing Turns
  - ☐ Straight Descents and Descending Turns
  - ☐ Level Turns
- ☐ Maneuvering During Slow Flight
- ☐ Go-Around from Rejected (Balked) Landing
- ☐ Postlight Procedures
  - ☐ After Landing, Parking and Securing

COMPLETION STANDARDS:

The student will perform the tasks above to the standards of the Commercial Pilot ACS with the following exceptions: Normal Takeoff and Climb: maintain Vy +10/- 5 knots to a safe maneuvering altitude Normal Approach and Landing: Airspeed +10/-5 knots, Touch down at +300/-0 feet Maneuvering During Slow Flight: maintain specified altitude +/- 75 feet, airspeed +7/-0 knots.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 2 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review of emergency procedures, basic stall maneuvers, steep turns and short field takeoff and landing procedures. The student should increase proficiency by referencing to the horizon.

CONTENT:

Lesson Review

- ☐ Simulated Emergency Procedures
  - ☐ Emergency Descent
  - ☐ Emergency Approach and Landing (Simulated)
  - ☐ System and Equipment Malfunctions
    - ☐ Electrical malfunction
    - ☐ Pitot-static system malfunction
    - ☐ Electronic flight deck display malfunction
    - ☐ Flap malfunction
    - ☐ Inoperative trim
    - ☐ Smoke or fire onboard
    - ☐ Inadvertent door opening
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Accelerated Stalls
- ☐ Steep Turns
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
- ☐ Postflight Procedures
  - ☐ After Landing, Parking, and Securing

COMPLETION STANDARDS:

The student will perform the tasks above to the standards of the Commercial Pilot ACS with the following exceptions: Steep Turns: Entry altitude +/-150 feet, airspeed +/- 15 knots. Short-Field Takeoff and Maximum Performance Climb: Vx and Vy +7/-5 knots. Short-Field Approach and Landing: Touch down at +200/-0 feet, airspeed +7/-5 knots.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 3 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

This lesson provides the student with the opportunity to practice basic flight maneuvers to further develop coordination and airplane control.

CONTENT:

Lesson Review

- ☐ Maneuvering During Slow Flight
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Accelerated Stalls
- ☐ Steep Turns
- ☐ Takeoffs and Landings
  - ☐ Normal Takeoffs and Climb
  - ☐ Normal Approach and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landings

COMPLETION STANDARDS:

The lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning of each maneuver.

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 4 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review of the listed tasks. Students will also review mixture leaning procedures and softfield takeoff and landing.

CONTENT:

Lesson Review

- ☐ Visual Inspection
- ☐ Cruise Procedures
- ☐ Power Settings and Mixture Leaning
- ☐ Climbs
- ☐ Descents
- ☐ Steep Turns
- ☐ Maneuvering During Slow Flight
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Accelerated Stalls
- ☐ Takeoffs and Landings
  - ☐ Soft-Field Takeoffs and Climb
  - ☐ Soft-Field Approach and Landing
- ☐ Postflight Procedures
  - ☐ After Landing, Parking, and Securing

COMPLETION STANDARDS:

The lesson is complete when the student can lean the mixture setting to 100° rich of the peak EGT. The rest of tasks will be performed to the standards of the Commercial Pilot ACS with the following exception: Maneuvering During Slow Flight: specified altitude +/- 75 feet, airspeed +7/-0 knots. Steep Turns: Entry altitude +/-150 feet, airspeed +/- 15 knots. Soft-Field Takeoff and Climb: Vx or Vy +7/-5 knots. Soft-Field Approach and Landing: Airspeed +7/-5 knots

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 5 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review of commercial maneuvers.

CONTENT:

Lesson Review

- ☐ Chandelles
- ☐ Steep Spiral
- ☐ Lazy Eights
- ☐ Eights On Pylons
- ☐ Traffic Patterns
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

The tasks will be performed to the standards of the Commercial Pilot ACS with the following exception: Chandelles: Rollout heading +/-15° Steep Spiral: Specified airspeed +/- 15 knots, Rollout heading +/- 15° Lazy Eights: altitude +/- 150 feet from entry altitude, airspeed +/- 15 knots from entry airspeed, heading +/- 15° Short-Field Takeoff and Maximum Performance Climb: Vx and Vy +7/-5 knots. Short-Field Approach and Landing: Touch down at +200/-0 feet, airspeed +7/-5 knots Soft-Field Takeoff and Climb: Vx or Vy +7/-5 knots. Soft-Field Approach and Landing: Airspeed +7/-5 knots Power-Off 180 Degrees Accuracy Approach and landing: Touchdown at +400/-0 feet.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 6 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- ☐ Chandelles
- ☐ Steep Spiral
- ☐ Lazy Eights
- ☐ Eights On Pylons
- ☐ Accelerated Stall
- ☐ Takeoffs and Landings
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

The lesson is complete when the student has conducted the assigned flight. The student should attempt to gain proficiency in the planning of each maneuver.

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 7 **<u>SOLO - LOCAL</u>**

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

- ☐ Maneuvering During Slow Flight
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing

COMPLETION STANDARDS:

The lesson is complete when the student has conducted the assigned flight. The student should attempt to increase proficiency and accuracy of each maneuver.

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 8 <u>DUAL – LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review of the listed maneuvers for the student and an opportunity to correct any area of faulty performance.

CONTENT:

Lesson Review

- ☐ Chandelles
- ☐ Steep Spiral
- ☐ Lazy Eights
- ☐ Eights On Pylons
- ☐ Traffic Patterns
- ☐ Wake Turbulence Avoidance
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

The tasks will be performed to the standards of the Commercial Pilot ACS with the following exception: Chandelles: Rollout heading +/-15° Steep Spiral: Specified airspeed +/- 15 knots, Rollout heading +/- 15° Lazy Eights: Entry altitude +/- 150 feet, entry airspeed +/- 15 knots, heading +/- 15° Short-Field Takeoff and Maximum Performance Climb: Vx and Vy +7/-5 knots Soft-Field Takeoff and Climb: Vx or Vy +7/-5 knots. Short-Field Approach and Landing: Touch down at +200/-0 feet, airspeed +7/-5 knots Soft-Field Approach and Landing: Airspeed +7/-5 knotsPower-Off 180 Degrees Accuracy Approach and landing: Touch down within 400 feet beyond or on the specified point.

INSTRUCTOR NOTES:

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
3.0			3.0		2.6			0.5	

STAGE X FLIGHT LESSON 9 <u>DUAL - CROSS COUNTRY</u>

LESSON OBJECTIVE:

This lesson provides a review of Instrument cross-country procedures. The student will simulate picking up a pop-up IFR with an instructor in the air or pick up pop-up IFR with an air traffic controller. At least one of the legs must be filed with VFR flight plan to be able to pick up Pop-up IFR. The flight will include landing at a point more than 50 nautical miles from the original departure point. During the flight, the student will review Systems and Equipment Malfunction.

CONTENT:

Lesson Review

- ☐ Cross-Country Flight Planning
- ☐ Filing VFR and IFR Flight Plans
- ☐ Picking up Pop-up IFR (simulated with instructor if ATC in unable to provide the service)
- ☐ VOR Navigation
- ☐ GPS Navigations
- ☐ Cruise Procedure
- ☐ Power Setting and Mixture Leaning
- ☐ Usage of Flight Director and Autopilot
- ☐ Instrument Approach Procedures (Precision or Non-Precision as Selected by the Instructor)
- ☐ Systems and Equipment Malfunctions
  - ☐ Electrical System
  - ☐ Alternator Failure
  - ☐ Popped Circuit Breaker
  - ☐ Electrical Fire
  - ☐ Radio Failure
  - ☐ Engine Fire
  - ☐ Electric Pitch Trim Runaway

COMPLETION STANDARDS:

The student will perform the IFR Flight Plans and Instrument Approaches Procedures to the level required by the current FAA Instrument Rating – Airplane ACS. The rest of the tasks will be performed to the standards of the Commercial Pilot ACS. The student will show proficiency for Flight Director and Autopilot usage.

INSTRUCTOR NOTES:

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

***NOTE, this lesson should be used to ensure the student has met the SOLO XC requirements for the Commercial rating**

STAGE X FLIGHT LESSON 10 SOLO-XC

LESSON OBJECTIVE:

This lesson maintains student proficiency in cross-country flights. The flight will include a landing at a point more than 50 nautical miles from the original departure point.

CONTENT:

Lesson Review

- ☐ Cross-Country Flight Planning
- ☐ Cross-Country Navigation
- ☐ Dead Reckoning
- ☐ Pilotage
- ☐ VOR Navigation
- ☐ GPS Navigations
- ☐ Controlled Airport Operations
- ☐ Uncontrolled Airport Operations
- ☐ Power Settings and Mixture Leaning

COMPLETION STANDARDS:

This lesson is complete when the student has conducted a solo cross-country flight to include a landing at a point more than 50 nautical miles from the original departure point. The student will demonstrate continued proficiency in cross-country operations

STUDENT NOTES:

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

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

LESSON OBJECTIVE:

This lesson reviews the student's night flight operations and the differences encountered between day and night flight.

CONTENT:

Lesson Review

- ☐ Night Taxi Operation
- ☐ Airport and Runway Markings and Lighting
- ☐ Takeoffs and Landings
  - ☐ Normal Takeoff and Climb
  - ☐ Normal Approach and Landing
  - ☐ Go-Around From Rejected (Balked) Landing
- ☐ Controlled and Uncontrolled Airports Operation
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Maneuvering During Slow Flight
- ☐ Steep Turns
- ☐ Simulated Emergency Procedures
  - ☐ Emergency Descent
  - ☐ Emergency Approach and Landing (Simulated)
  - ☐ Systems and Equipment Malfunctions

COMPLETION STANDARDS:

The tasks will be performed to the standards of the Commercial Pilot ACS.

INSTRUCTOR NOTES:

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

***Night LD. = Solo Night Landings at an Airport with an Operating Control Tower.**

STAGE X FLIGHT LESSON 12 <u>SOLO - LOCAL - NIGHT</u>

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review:

- ☐ Takeoffs and Landings
  - ☐ Normal Takeoff and Climb
  - ☐ Normal Approach and Landing

COMPLETION STANDARDS:

This lesson is complete when the student has conducted the solo night flight. During the flight, the student should attempt to gain proficiency in takeoffs and landings in the night environment. NOTE: Through a combination of Stage IV Lessons 12, 16, & 22 and Stage X Lesson 12, & 13 the student will have completed a combined 10 takeoffs and landings (with each landing involving a flight with a traffic pattern) at an airport with an operating control tower in night VFR conditions.

STUDENT NOTES:

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

***Night LD. = Solo Night Landings at an Airport with an Operating Control Tower. Student will need to have a total of 10 between IV, V, X.**

STAGE X FLIGHT LESSON 13 <u>SOLO - LOCAL - NIGHT</u>

LESSON OBJECTIVE:

The object of this lesson is to increase the student's 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
  - ☐ Normal Takeoff and Climb
  - ☐ Normal Approach and Landing

COMPLETION STANDARDS:

The student's increase in night proficiency to that of a commercial pilot will be evident during the evaluation. The student will thoroughly explain the additional operational aspects and safety considerations which are associated with night flight. NOTE: Through a combination of Stage IV Lessons 12, 16, & 22 and Stage X Lesson 12, & 13 the student will have completed a combined 10 takeoffs and landings (with each landing involving a flight with a traffic pattern) at an airport with an operating control tower in night VFR conditions.

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 14 <u>SOLO- LOCAL</u>

LESSON OBJECTIVE:

This lesson is a solo review lesson designed to increase the student's proficiency on listed maneuvers.

CONTENT:

Lesson Review

- ☐ Steep Turns
- ☐ Takeoffs and Landings
  - Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

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

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 15 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

This lesson is a solo review lesson designed to increase the student's proficiency on listed maneuvers.

CONTENT:

Lesson Review

- ☐ Chandelles
- ☐ Lazy Eights
- ☐ Eights On Pylons
- ☐ Steep Spiral

COMPLETION STANDARDS:

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

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 16 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

The objective is to increase proficiency, accuracy and consistency on listed takeoffs and landing skills.

CONTENT:

Lesson Review

- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

All maneuvers will be performed according to Commercial Pilot Airplane ACS.

INSTRUCTOR NOTES:

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
2.0					1.6			0.5	

STAGE X FLIGHT LESSON 17 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson reviews precision and non-precision approaches and holding procedures.

CONTENT:

Lesson Review

- ☐ Instrument Approaches
  - ☐ Precision
  - ☐ Non-Precision
- ☐ Holding
- ☐ Simulated Failure of the PFD
- ☐ Flight Director and Autopilot usage

COMPLETION STANDARDS:

The student will demonstrate proficiency in the operation and management of the flight director and autopilot systems. Instrument approaches and holds will be performed to the Instrument Rating Airman Certification Standards.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 18 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

This lesson provided the opportunity to review and practice flight maneuvers to gain added proficiency.

CONTENT:

Lesson Review

- ☐ Lazy Eights
- ☐ Eights On Pylons
- ☐ Chandelles
- ☐ Steep Turns
- ☐ Steep Spiral
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

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

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 19 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

This lesson provided the opportunity to review and practice flight maneuvers to gain added proficiency.

CONTENT:

Lesson Review

- ☐ Maneuvering During Slow Flight
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Accelerated Stalls
- ☐ Takeoffs and Landings
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing

COMPLETION STANDARDS:

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

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 20 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

During this lesson, the student is provided with a review of basic flight procedures along with the practice of emergency procedures, attitude instrument flying, and takeoffs and landings.

CONTENT:

Lesson Review

- ☐ Visual Inspection
- ☐ Determining Performance and Limitations
- ☐ Takeoffs and Landings
  - ☐ Normal Takeoff and Climb
  - ☐ Normal Approach and Landing
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Go-Around From Rejected (Balked) Landing
- ☐ Power Settings and Mixture Leaning
- ☐ Climbs
- ☐ Descents
- ☐ Steep Turns
- ☐ Maneuvering During Slow Flight
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Accelerated Stalls
- ☐ Emergency Operations
  - ☐ Emergency Descent
  - ☐ Emergency Approach and Landing (Simulated)
  - ☐ System and Equipment Malfunctions
  - ☐ Fire in Flight
- ☐ Basic Instrument Maneuvers
  - ☐ Straight-and-Level Flight
  - ☐ Constant Airspeed Climbs
  - ☐ Climbing Turns
  - ☐ Constant Airspeed Descents
  - ☐ Descending Turns
  - ☐ Turns to Headings
  - ☐ Recovery From Unusual Flight Attitudes

COMPLETION STANDARDS:

The student will perform the visual tasks to the standards of the Commercial Pilot Airman Certification Standards. Instrument tasks will be performed to the standards of the Instrument Airplane Airman Certification Standards.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 21 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

This lesson provided the opportunity to review and practice flight maneuvers to gain added proficiency.

CONTENT:

Lesson Review

- ☐ Chandelles
- ☐ Steep Spiral
- ☐ Lazy Eights
- ☐ Eights On Pylons
- ☐ Maneuvering During Slow Flight
- ☐ Power-On Stalls
- ☐ Power-Off Stalls
- ☐ Accelerated Stalls
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing

COMPLETION STANDARDS:

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

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 22 <u>SOLO-LOCAL</u>

LESSON OBJECTIVE:

This lesson provided the opportunity to review and practice listed takeoffs and landings as well as any maneuvers instructor assigned to the student.

CONTENT:

Lesson Review

- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing
- ☐ Any Tasks and/or Maneuvers listed in the Commercial ACS assigned by Instructor
- ☐ Postflight Procedures
  - ☐ After Landing, Parking, and Securing

COMPLETION STANDARDS:

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

STUDENT NOTES:

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

STAGE X FLIGHT LESSON 23 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review of the maneuvers assigned by the instructor for the student and an opportunity to correct any deficiencies prior to lesson 24.

CONTENT:

Lesson Review

- ☐ Any Tasks and/or Maneuvers listed in the Commercial ACS assigned by Instructor

COMPLETION STANDARDS:

All maneuvers will be performed according to Commercial Pilot Airplane ACS.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 24 <u>DUAL-LOCAL</u>

LESSON OBJECTIVE:

This lesson is the final review of commercial flight maneuvers. The objective is to determine the student's preparedness for the End of Course stage check. If possible, the learner will fly with a flight instructor from the Aviation Department other than their regular flight instructor.

CONTENT:

Lesson Review

- ☐ Navigation
  - ☐ Pilotage and Dead Reckoning
  - ☐ Navigation and Radar Services
  - ☐ Diversion
  - ☐ Lost Procedures
- ☐ Chandelles
- ☐ Lazy Eights
- ☐ Steep Spiral
- ☐ Eights On Pylons
- ☐ Steep Turns
- ☐ Maneuvering During Slow Flight
- ☐ Power-Off Stalls
- ☐ Power-On Stalls
- ☐ Accelerated Stalls
- ☐ Takeoffs and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power-Off 180 Degree Accuracy Approach and Landing
  - ☐ Go-Around From Rejected (Balked) Landing
- ☐ Emergency Operations
  - ☐ Systems and Equipment Malfunction
  - ☐ Emergency Descent
  - ☐ Emergency Approach and Landing (Simulated)
- ☐ Postflight Procedures
  - ☐ After Landing, Parking, and Securing

COMPLETION STANDARDS:

The lesson is complete when the student can perform each of the listed maneuvers to the minimum performance standards outlined in the current FAA commercial pilot airman certification standards.

INSTRUCTOR NOTES:

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

STAGE X FLIGHT LESSON 25 <u>QUIZ</u>

LESSON OBJECTIVE:

The objective of this lesson is to test the student's knowledge of this stage through a quiz.

CONTENT: The quiz will cover the following areas:

Lesson Review

- ☐ Pilot Qualifications
- ☐ Aircraft Airworthiness Requirements
- ☐ Operation of Systems
- ☐ National Airspace System
- ☐ Performance and Limitation
- ☐ Weather Information
- ☐ Human Factors
- ☐ Maneuvering During Slow Flight
- ☐ Stalls
- ☐ Takeoff and Landings
  - ☐ Short-Field Takeoff and Maximum Performance Climb
  - ☐ Short-Field Approach and Landing
  - ☐ Soft-Field Takeoff and Climb
  - ☐ Soft-Field Approach and Landing
  - ☐ Power Off 180 Degree Accuracy Maneuvers
- ☐ Steep Turns
- ☐ Chandelles
- ☐ Steep Spirals
- ☐ Lazy Eights
- ☐ Eights on Pylons

COMPLETION STANDARDS:

This lesson is complete when the student scores a 70% or better. In addition, the instructor is responsible for reviewing those questions missed.

INSTRUCTOR NOTES:

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
1.5								0.5	1.5

STAGE X FLIGHT LESSON 24 <u>DUAL-STAGE CHECK</u>

LESSON OBJECTIVE: This lesson is the final stage check conducted by the Chief or Assistant Chief Flight Instructor or Check Instructor approved by the FSDO. During this lesson the student must demonstrate Knowledge (KN), Risk Management (RM) and Skill (SK) as required by the FAA Commercial Pilot – Airplane Airman Certification Standards. The order of material examined under lesson content is based on how this material may be covered during the ground and flight portions of the practical test. The material is not required to be covered in this order as long as it is covered in its entirety. The ground portion of the test must be completed prior to the flight portion of the test.

PRE-TEST PLANNING: The evaluator will check for updates to the Airman Certification Standards. Any changes will be incorporated into the evaluation. The evaluator will note the ACS codes missed on the knowledge test and annotate these codes on the KN or RM line for each task or groups of tasks in the lesson plan. These items must be evaluated as part of the stage check.

CONTENT: The applicant will plan a VFR cross country flight using real world weather. The weights of passengers and baggage must be such that the aircraft can't reach its primary destination without making a fuel stop. In both the ground and flight portions of the stage check the evaluator will present the applicant with different situations within the scenario (weather, equipment failure, ATC requests, medical issues etc.). In the process of demonstrating the KN, RM and SK to deal with these situations as many of the tasks as possible will be evaluated. Any remaining tasks will be evaluated outside the context of the scenario. In some cases tasks are grouped together to facilitate evaluation as part of a scenario. The evaluator will make note of unsatisfactory performance on each task as appropriate.

Ground Portion of Practical Test: All SK elements must be evaluated. At least one KN and one RM element from each task must be evaluated. If
an element was missed on the knowledge test, evaluation of this element may count as the one element to be
evaluated. At the evaluator's discretion more than one element may be evaluated.

- ☐ AOI: Preflight Preparation
  - ☐ Pilot Qualifications (AOI, Task A)
  - ☐ Airworthiness Requirements (AOI, Task B)
  - ☐ Weather Information (AOI, Task C)
  - ☐ Cross-Country Flight Planning (AOI, Task D)
  - ☐ National Airspace System (AOI, Task E)
  - ☐ Performance and Limitations (AOI, Task F)
  - ☐ Operation of Systems (AOI, Task G)
  - ☐ Human Factors (AOI, Task H)

- ☐ AOII: Preflight Procedures
  - ☐ Preflight Assessment (AOII, Task A)
  - ☐ Flight Deck Management (AOII, Task B)
  - ☐ Engine Starting (AOII, Task C)
  - ☐ Taxiing (AOII, Task D)
  - ☐ Before Takeoff Check (AOII, Task F)

- ☐ AOIII: Airport and Seaplane Base Operations
  - ☐ Communications and ATC Light Signals and Runway Lighting Systems (AOIII, Task A)
  - ☐ Traffic Patterns (AOIII, Task B)

- ☐ AOIV: Takeoffs, Landings, and Go-Arounds
  - ☐ Norman Takeoff and Climb (AOIV, Task A)
  - ☐ Normal Approach and Landing (AOIV, Task B)
  - ☐ Soft-Field Takeoff and Climb (AOIV, Task C)
  - ☐ Soft-Field Approach and Landing (AOIV, Task D)
  - ☐ Short-Field Takeoff and Maximum Performance Climb (AOIV, Task E)
  - ☐ Short-Field Approach and Landing (AOIV, Task F)
  - ☐ Power-Off 180 Degree Approach and Landing (AOIV, Task M)
  - ☐ Go-Around/Rejected Landing (AOIV, Task N)

- ☐ AOV: Performance Maneuvers and Ground Reference Maneuvers
  - ☐ Steep Turns (AOV, Task A) or Steep Spirals (AOV, Task B)
  - ☐ Chandelles (AOV, Task C) or Lazy Eights (AOV, Task D)
  - ☐ Eights on Pylons (AOV, Task E)

- ☐ AOVI: Navigation
  - ☐ Pilotage and Dead Reckoning (AOVI, Task A)
  - ☐ Navigation Systems and Radar Services (AOVI, Task B)
  - ☐ Diversion (AOVI, Task C)
  - ☐ Lost Procedures (AOVI, Task D)

- ☐ AOVII: Slow Flight and Stalls
  - ☐ Maneuvering During Slow Flight (AOVII, Task A)
  - ☐ Power-Off Stalls (AOVII, Task B)
  - ☐ Power-On Stalls (AOVII, Task C)
  - ☐ Accelerated Stalls (AOVII, Task D)
  - ☐ Spin Awareness (AOVII, Task E)

- ☐ AOVIII: High-Altitude Operations
  - ☐ Supplemental Oxygen (AOVIII, Task A)
  - ☐ Pressurization (AOVIII, Task B)

- ☐ AOIX: Emergency Operations
  - ☐ Emergency Descent (AOIX, Task A)
  - ☐ Emergency Approach and Landing (AOIX, Task B)
  - ☐ Systems and Equipment Malfunction (AO IX, Task C) - At least three system malfunctions
  - ☐ Emergency Equipment and Survival Gear (AO IX, Task D)

- ☐ AOXI: Postflight Procedures
  - ☐ After Landing, Parking and Securing (AOXI, Task A)

COMPLETION STANDARDS:

The student will demonstrate proficiency in strict accordance with the Commercial Pilot – Airplane Airman Certification Standards.

EXAMINER NOTES: