UNIVERSITY OF OKLAHOMA COMMERCIAL PILOT (4552) FLIGHT TRAINING SYLLABUS 2025-AUG-15

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.

| | | | FLIGHT I | ESSON TI | ME ALLO | CATION ' | TABLE | | | |
|---------------------------------|------|------|---------------|---------------|------------|------------|---------------|------|----------|-----|
| Lesson | Dual | Solo | Dual Night | Solo Night | Dual XC | Solo XC | Dual INST. | TAA | Pre/Post | GI |
| | | • | ' | ' | STAGE X | ζ. | • | | • | |
| 1 | 1.0 | | | | | | | | 0.5 | |
| 2 | 1.0 | | | | | | | | 0.5 | |
| 3 | | 2.0 | | | | | | | 0.5 | |
| 4 | 1.0 | | | | | | | | 0.5 | |
| 5 | 2.0 | | | | | | 0.8 | 1.0 | 0.5 | |
| 6 | | 3.0 | | | | | | | 0.5 | |
| 7 | 2.0 | | | | | | 0.8 | 1.0 | 0.5 | |
| 8 | 1.0 | | | | | | | | 0.5 | |
| 9 | 1.0 | | | | | | | | 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 | | 3.0 | | | | | | | 0.5 | |
| 15 | 2.0 | | | | | | 0.8 | 1.0 | 0.5 | |
| 16 | 2.0 | | | | | | 1.6 | 2.0 | 0.5 | |
| 17 | | 3.0 | | | | | | | 0.5 | |
| 18 | 1.0 | | | | | | | | 0.5 | |
| 19 | 2.0 | | | | | | 0.7 | | 0.5 | |
| 20 | | 3.0 | | | | | | | 0.5 | |
| 21 | 2.0 | | | | | | | | 0.5 | |
| 22 | 1.0 | | | | | | | | 0.5 | |
| 23 QUIZ | | | | | | | | | 0.5 | 0.5 |
| 24 (STGCHK) | 1.0 | | | | | | | | 0.5 | 1.5 |
| Totals | 21.0 | 19.0 | 1.0 | 2.0* | | 3.0 | 4.7 | 5.0 | 12.0 | 2.0 |
| GRAND TOTALS** (IV, V, X) | 55.0 | 65.0 | 8.0 | 7.0* | 12.0 | 32.0 | 13.0 | 10.0 | N/A | N/A |

*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

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 also will successfully complete the final stage tests and stage checks.

| | | | | | | | _ | | |
|-------------------------------------------------------------|------|---------------|------------|------------|---------------|--------------|------|-------------|----|
| 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 X FLIGHT LESSON 1 <u>DUAL-LOCAL</u> LESSON OBJECTIVE: | | | | | | | | | |

This lesson provides a review of basic ground reference maneuvers, steep power turns and chandelles. The student should begin developing precise airplane control

when operating near the performance limits of the airplane.

CONTENT:

Lesson Review

| | Private Pilot Ground Reference Maneuvers Assigned by the |
|--------|----------------------------------------------------------|
| | Instructor |
| | Maneuvering During Slow Flight |
| | Simulated Emergency Procedures |
| | ☐ Emergency Descent |
| | ☐ Emergency Approach and Landing |
| | ☐ System and Equipment Malfunctions |
| | Steep Turns |
| \Box | Chandelles |

COMPLETION STANDARDS:

The lesson is complete when the student can perform basic ground reference maneuvers to the standards of the Private Pilot Airman Certification Standards. Simulated emergency procedures will be to the standards of the Commercial Pilot Airman Certification Standards. Steep Turns and Chandelles will be performed to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Steep Turns: Altitude +/- 150 feet, roll out heading +/-15 degrees Chandelles: Roll out heading +/- 15 degrees

| | | |
|--|------|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | - |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| 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 X FLIGHT LESSON 2 DUAL-LOCAL

LESSON OBJECTIVE:

The objective of this lesson is to review systems and basic flight operations.

| CONTENT: |
|----------|
|----------|

| Lesson | Introd | luction |
|--------|--------|---------|
|--------|--------|---------|

| ☐ 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 |
| ☐ Pretakeoff Check |
| ☐ Minimum Equipment List |
| ☐ Airport Operations |
| ☐ Takeoffs and Landing |
| ☐ Normal |
| ☐ Crosswind |
| Climbs and Descents |
| ☐ Steep Turns Cruise Procedures |
| ☐ Power Settings and Mixture Leaning |
| ☐ Use of Constant-Speed Propeller and Effects Upon Aircraft |
| Performance |

| ☐ Use of Retractable Landing Gear and Flaps |
|---------------------------------------------|
| ☐ Go-Around From Rejected (Balked) Landing |
| ☐ Post Flight Procedures |

COMPLETION STANDARDS:

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

| Altitude +/- 150 feet, roll out heading +/-15 degrees |
|-------------------------------------------------------|
| 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 X FLIGHT LESSON 3 SOLOL-LOCAL

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

| ╛ | Stalls |
|---|----------------------------------------------------------|
| | ☐ Power-Off |
| | ☐ Power-On |
| | ☐ Accelerated |
| | Maneuvering During Slow Flight |
| | Normal Takeoffs and Landings |
| | Private Pilot Ground Reference Maneuvers Assigned by the |
| | Instructor |

COMPLETION STANDARDS:

This 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: | | |
|----------------|------|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| - | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| MIN 0.7 0.5 1.0 0.5 STAGE X FLIGHT LESSON 4 DUAL-LOCAL | Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI | |
|--------------------------------------------------------|------|------|---------------|------------|------------|---------------|--------------|------|-------------|----|--|
| | | | | | | | | | 0.5 | | |
| STAGE X FLIGHT LESSON 4 <u>DUAL-LOCAL</u> | 1.0 | | | | | | | | 0.5 | | |
| | | | | | | | | | | | |

| LESSON OBJECTIVE: |
|---------------------------------------------------|
| This lesson provides a review of the listed tasks |
| CONTENT: |
| Lesson Review |

| Visual Inspection |
|------------------------------------|
| Cruise Procedures |
| Power Settings and Mixture Leaning |
| Climbs Descents |
| Steep Turns |
| Maneuvering During Slow Flight |
| Stalls |
| ☐ Power-Off |
| ☐ Power-On |
| ☐ Accelerated |
| Takeoffs and Landings |
| ☐ Short-Field |
| ☐ Soft-Field |
| |

COMPLETION STANDARDS:

The tasks will be performed to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Short Field Landing touchdown -0 to +150 feet.

| INSTRUCTOR NOT | TES: | | |
|----------------|------|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | TAA | Pre Post | GI |
|------------|------|---------------|------------|------------|---------------|--------------|-----|-------------|----|
| MIN 1.7 | | | | | 0.8 | | 1.0 | 0.5 | |
| 2.0 | | | | | 0.8 | | 1.0 | 0.5 | |

STAGE X FLIGHT LESSON 5 DUAL-LOCAL

LESSON OBJECTIVE:

This lesson presents additional instruction in chandelles and steep power turns and reviews instrument procedures. Maximum performance takeoffs and landings are practiced to increase the student's proficiency in the takeoff and landing phases of flight. The Instrument portion of this lesson will be conducted in a Technically

| CU | N | 1 | Ł | N | 1: |
|----|---|---|---|---|----|
| | | | | | |

| A 1 1 A . | 1 | |
|--------------|------------------------------------------------------|--|
| Advanced Air | plane. | |
| CONTENT: | | |
| r n · | 1/0 | |
| Lesson Revie | w 1/2 | |
| | Steep Turns | |
| | ☐ Chandelles | |
| | ☐ Steep Spiral | |
| | ☐ Eights-On-Pylons | |
| | ☐ Traffic Patterns | |
| | ☐ Short-Field Takeoff and Landing | |
| | ☐ Soft-Field Takeoff and Landing | |
| | ☐ Power-Off 180 Degree Accuracy Approach and Landing | |
| Lesson Revie | w 2/2 | |
| ı | | |
| | Instrument Approaches | |
| | Precision | |
| | Non-Precision | |
| | Holding | |
| | ☐ Simulated Failure of the PFD | |

COMPLETION STANDARDS:

The maneuvers and landings will be performed to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Chandelles: Roll out heading: +/-15 degrees Steep Spiral: Airspeed +/-15 knots Power Off Accuracy Landing: Touchdown -0 to +300 feet Eights On Pylons: Hold pylon to within one wing width.

For the instrument review the student will correctly interpret the PFD and MFD and correctly program the flight director. Instrument Approaches and holds will be performed to the standards of the Instrument Rating Airplane Airman Certification Standards.

| INSTRUCTOR NOTES: | | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI |
|----------|------------|-----------------|------------|-------------|-----------------------|--------------|-------------|-------------|--------|
| | MIN 2.7 | | | | | | | 0.5 | |
| | 3.0 | | | | | | | 0.5 | |
| | | | • | | | | | | |
| STAGE | X FLI | GHT LE | ESSON | 6 <u>SO</u> | LO-LOC | CAL | | | |
| LESSO | N OBJI | ECTIVE | Z : | | | | | | |
| Tri . | | | | | ~· | | , at | 0 | .1 1. |
| The stu | | ill atten | npt to | gaın pr | oficiency | / through | the revi | ew of | the II |
| maneav | 215. | | | | | | | | |
| CONTE | ENT: | | | | | | | | |
| Lesson 1 | Review | | | | | | | | |
| | | | | | | | | | |
| | | Steep ' | | | | | | | |
| | | Chand | | ъ. | CI EI. | 1. | | | |
| | | | _ | _ | Slow Flig and Land | _ | | | |
| | | | | | nd Landi | | | | |
| | | Stalls | | | | 8- | | | |
| | | | Powe | er-Off | | | | | |
| | | | Powe | | | | | | |
| | _ | _ | Acce | lerated | | | | | |
| | | Lazy I Steep | _ | | | | | | |
| | | Steep | - | ons | | | | | |
| | | | | | | | | | |
| COMPI | LETIO | N STAN | DARD | S : | | | | | |
| This les | son is | complete | e when | the stud | dent has | conducte | ed the ass | igned m | naneuv |
| During 1 | the less | on, the | student | | | | ize the tra | | |
| time bet | ween ea | ch mane | uver. | | | | | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | TAA | Pre Post | GI |
|------------|------|---------------|------------|------------|---------------|--------------|-----|-------------|----|
| MIN 1.7 | | | | | 0.8 | | 1.0 | 0.5 | |
| 2.0 | | | | | 0.8 | | 1.0 | 0.5 | |

STAGE X FLIGHT LESSON 7 <u>DUAL - LOCAL</u>

LESSON OBJECTIVE:

This lesson provides a review and evaluation of the student's progress during the previous solo lessons, including lazy eights, and eightson-pylons. The instrument portion of this lesson will be conducted in a Technically Advanced Airplane.

| CONTENT: | | | | | | | | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| Lesson Review 1/2 | | | | | | | | | |
| | Chandelles Normal Takeoffs and Landings Crosswind Takeoffs and Landings Power-Off 180 Degree Accuracy Approach and Landing Wake Turbulence Avoidance Lazy Eights Steep Spiral Eights-On-Pylons | | | | | | | | |
| Lesson Review | | | | | | | | | |
| | Instrument Approaches Precision Non-Precision Holding Recovery From Unusual Attitudes Simulated Failure of the PFD | | | | | | | | |

COMPLETION STANDARDS:

INSTRUCTOR NOTES:

The maneuvers and landings will be performed to the standards of the Commercial Pilot Airman Certification Standards with the following exceptions: Power-Off Accuracy Landings: Touch down -0 to +300 feet Lazy Eights: 180 degree point altitude/airspeed within 200 feet/15 knots of entry altitude/airspeed

For the instrument review the student will correctly interpret the PFD and MFD and correctly program the flight director and operate the autopilot. Instrument approaches, holds and recovery from unusual attitudes will be performed to the Instrument Rating Airman Certification Standards.

| INSTRUCTOR NO | 1123. | | |
|---------------|-------|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| 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 X FLIGHT LESSON 8 <u>DUAL - LOCAL</u>

LESSON OBJECTIVE:

During this lesson, the student is provided with a review of emergency procedures and commercial pilot maneuvers.

| CO | N | Т | T' | N | Т | • |
|---------|----|---|----|-----|---|---|
| \cdot | Τ. | 1 | 1 | L T | 1 | ٠ |

| Lesson | Reviev | ١ |
|--------|--------|---|
| | | |

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

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

COMPLETION STANDARDS:

Tasks will be performed to the standards of the Commercial Pilot Airman Certification Standards with the following exception: Lazy Eights: 180 degree point altitude/airspeed within 150 feet/15 knots of entry airspeed/altitude.

| INSTRUCTOR NOTES: | |
|-------------------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | Gl |
|------------|----------|--------------------------------|-------------------------------------|---------------------------------------------------|---------------|--------------|--------------------------|-------------|----|
| MIN 0.7 | | | | | | | | 0.5 | |
| 1.0 | | | | | | | | 0.5 | |
| LESSO | N OBJ | ECTIVE | Z : | | AL - LO | | ne listed ta | asks. | |
| Lesson | Review | | | | | | | | |
| | | Climbar Descent Steep Takeon C | Setting s nts Turns ffs and l Short | s and M Landing t-Field Field 0 Degre | e Accura | су Аррго | ach and L ings to a l | _ | o |
| COMP | LETIO | N STAN | DARD | S: | | | | | |
| Certifica | ation St | _ | with the | follow | | | Commero wer-Off A | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI | |
|------------|--------------------------------------------------------------------------------------------------------------------|---------------|------------|------------|---------------|--------------|------|-------------|----|--|
| | MIN 3.0 | | | 3.0 | | | | 0.5 | | |
| | 3.0 | | | 3.0 | | | | 0.5 | | |
| *NOTE, thi | *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 |
| |

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 |
|------------|------|---------------|------------|------------|---------------|--------------|------|-------------|----|
| MIN 1.0 | | 1.0 | | | | | | 0.5 | |
| 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 Introduction

| duc | tion |
|-----|------------------------------------------|
| | 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 |
| | ☐ Controlled and Uncontrolled Airports |
| | Stalls |
| | ☐ Power-Off |
| | ☐ Power-On |
| | Maneuvering During Slow Flight |
| | Steep Turns |
| | Simulated Emergency Procedures |
| | ☐ Emergency Descent |
| | ☐ Emergency Approach and Landing |
| | Systems and Equipment Malfunctions |

| g do i irouna i rom rejectea (Bamea) Eamani | | Go-Around | From | Rejected | (Balked |) Landin | g |
|---------------------------------------------|--|-----------|------|----------|---------|----------|---|
|---------------------------------------------|--|-----------|------|----------|---------|----------|---|

COMPLETION STANDARDS:

The student will display knowledge of night operations to the standards of the Private Pilot Airman Certification Standards. The maneuvers will be performed to the standards of the Commercial Pilot Airman Certification Standards.

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

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

STAGE X 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:

| Takeoffs and | Landings |
|--------------|----------|
| ☐ Norm | nal |
| ☐ Cros | swind |

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, 17, & 21 and Stage X Lesson 12, 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.

| 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 | |
| | 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 SOLO - LOCAL - NIGHT

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 Fligh |
| 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.

| STUDENT NOTES: |
|----------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

| | | | | | | | - | | _ |
|------------------|---------|---------------|------------|-----------------|---------------|--------------|-------------|-------------|---------|
| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | SOCT LD. | Pre Post | GI |
| | MIN 2.7 | | | | | | | 0.5 | |
| | 3.0 | | | | | | | 0.5 | |
| | | | | | | | | | |
| STAGE | X FLIC | GHT LE | ESSON | 14 <u>SO</u> | LO- LO | <u>CAL</u> | | | |
| LESSO | N OBJI | ECTIVE | : | | | | | | |
| TT1 : 1 | .11 | . 1 | | | C 1 G. | 1. | 41 | 1 | 1 . |
| acquire | | | | ractice (| or the m | gnt mane | ivers so th | iat the st | uaent |
| - | - | | , | | | | | | |
| CONTE | ENT: | | | | | | | | |
| Lesson | Review | | | | | | | | |
| | | Steep ' | Turns | | | | | | |
| | | Chand | | | | | | | |
| | | Lazy I | - | | | | | | |
| | | Steep | - | 1 | | | | | |
| | | - | -On-Py | ions Landing | c | | | | |
| | _ | | Shor | _ | 3 | | | | |
| | | | Soft- | | | | | | |
| | | | Cros | swind | | | | | |
| | | Power | -Off 18 | 0 Degre | e Accura | cy Appro | ach and I | anding | |
| COMPI | LETIO | N STAN | DARD | S: | | | | | |
| COMI | | JIIII | | • | | | | | |
| | | | | | | | ducted th | | |
| During proficies | _ | it, the st | udent s | hould at | ttempt to | attain oi | · maintain | comme | rcial p |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | TAA | Pre Post | GI |
|------------|------|---------------|------------|------------|---------------|--------------|-----|-------------|----|
| MIN 1.7 | | | | | 0.8 | | 1.0 | 0.5 | |
| 2.0 | | | | | 0.8 | | 1.0 | 0.5 | |

STAGE X FLIGHT LESSON 15 DUAL-LOCAL

LESSON OBJECTIVE:

This lesson provides a review for the student and an opportunity to correct any areas of faulty performance. The instrument portion of this lesson will be conducted in a Technically Advanced Aircraft.

| 100 |
|-----------------------------------------------------------------------------------------------|
| CONTENT: |
| Lesson Review 1/2 |
| ☐ Chandelles ☐ Lazy Eights ☐ Eights-On-Pylons ☐ Steep Turns ☐ Steep Spiral Lesson Review 2/2 |
| ☐ Instrument Approaches ☐ Precision ☐ Non-Precision ☐ Holding ☐ Simulated Failure of the PFD |

COMPLETION STANDARDS:

The student will perform the maneuvers to the standards of the Commercial Pilot Airman Certification Standards. For the instrument review the student will correctly interpret the PFD and MFD and correctly program the flight director and use the autopilot. Instrument procedures will be performed to the standards of the Instrument Rating Airman Certification Standards.

| INSTRUCTOR NOTES: | | | | | | |
|-------------------|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | TAA | Pre Post | GI |
|------------|------|---------------|------------|------------|---------------|--------------|-----|-------------|----|
| MIN 2.0 | | | | | 1.6 | | 2.0 | 0.5 | |
| 2.0 | | | | | 1.6 | | 2.0 | 0.5 | |

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

LESSON OBJECTIVE:

The student will correctly interpret the PFD and MFD and correctly program the flight director and use the autopilot. Instrument approaches and holds will be performed to the Instrument Rating Airman Certification Standards.

CONTENT:

Lesson Review

| Instrument Approaches |
|------------------------------|
| Precision |
| Non-Precision |
| Holding |
| Simulated Failure of the PFD |

COMPLETION STANDARDS:

The student will correctly interpret the PFD and MFD and correctly program the flight director and use the autopilot. 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 |
|------|------------|---------------|------------|------------|---------------|--------------|------|-------------|----|
| | MIN 2.7 | | | | | | | 0.5 | |
| | 3.0 | | | | | | | 0.5 | |

STAGE X FLIGHT LESSON 17 SOLO-LOCAL

LESSON OBJECTIVE:

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

CONTENT:

Lesson Review

| Lazy Eights |
|----------------------------------------------------|
| Eights-On-Pylons |
| Chandelles |
| Steep Turns |
| Steep Spiral |
| Power-Off 180 Degree Accuracy Approach and Landing |

COMPLETION STANDARDS:

This lesson will be complete when the student has conducted the assigned solo flights. During each flight, the student should attempt to perform lazy eights with symmetrical loops and eights-on-pylons, chandelles, and steep power turns with smoothness and coordination. During steep spirals the student will adjust bank angle to maintain a constant radius from the selected point and pitch to maintain a constant airspeed. During the power-off 180 degree accuracy approach and landing the student will factor in the wind to correctly adjust the approach course to touch down on or 200 feet beyond the selected point.

| STUDENT 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 | |

| 1.0 | | | | | | | | 0.3 | |
|-----------|----------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------|------------|-----------|------------|---------|--------|
| STAGE | X FLIC | GHT LE | SSON | 18 <u>DU</u> | AL-LO | CAL | | | |
| LESSO | N OBJI | ECTIVE | : | | | | | | |
| This less | son is a | review to | mainta | ain profi | iciency ir | the liste | d tasks an | d maneu | ivers. |
| CONTE | ENT: | | | | | | | | |
| Lesson 1 | Review | | | | | | | | |
| | | Climbs Descer Steep Chande Lazy-E Steep S Eights- Maneu Stalls Takeof | Proced Setting Ints Furns Clelles Cights Spiral Con-Pyl Vering Powe Acce Stand I Short Soft- | lons During er-Off er-On lerated Landing t-Field | | ght | ach and L | anding | |

COMPLETION STANDARDS:

INSTRUCTOR NOTES:

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

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI |
|------------|------|---------------|------------|------------|---------------|--------------|------|-------------|----|
| MIN 1.7 | | | | | 0.7 | | | 0.5 | |
| 2.0 | | | | | 0.7 | | | 0.5 | |
| 2.0 | | | | | 0.7 | | | 0.5 | |

STAGE X 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 practice of emergency procedures, attitude instrument flying, and takeoffs and landings.

CONTENT:

Lesson Review

| Visual Inspection |
|------------------------------------------|
| Determining Performance and Limitations |
| Takeoffs and Landings |
| ☐ Normal |
| Go-Around From Rejected (Balked) Landing |
| Power Settings and Mixture Leaning |
| 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 |
|----------|----------------------------------------|
| Full Pan | el Instrument |
| | Straight and Level |
| | Climbs |
| | Climbing Turns |
| | Descents |
| | Descending Turns |
| | Standard-Rate Turns |
| | Recovery From Unusual Flight Attitudes |
| | Maneuvering During Slow Flight |

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: | | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI | |
|-----------|----------|------------------|------------|--------------|---------------|--------------|------------------------|-------------|----|--|
| | MIN 2.7 | | | | | | | 0.5 | | |
| | 3.0 | | | | | | | 0.5 | | |
| | | | | | | | | | | |
| STAGE | X FLI | GHT LE | ESSON | 20 <u>SO</u> | LO-LO | CAL | | | | |
| LESSON | N ORII | CTIVE | 7.• | | | | | | | |
| | | | | .a. | | | | m) | | |
| | | | | | | | olo lessoi ht maneu | | | |
| proficien | icy. | | - | | - | | | | | |
| CONTE | CONTENT: | | | | | | | | | |
| Lesson I | Review | | | | | | | | | |
| | |) a. 11 | | | | | | | | |
| | L | Stalls |] Powe | er-Off | | | | | | |
| | | | Powe | er-On | | | | | | |
| | | | Acce | | Slow Fli | alat | | | | |
| | | Manet Steep | _ | During | Slow Fil | gnı | | | | |
| | | Chand | elles | | | | | | | |
| | | Steep Lazy I | - | | | | | | | |
| | | - | -On-Py | lons | | | | | | |
| | | | | Landing | S | | | | | |
| | | | Shor Soft- | | | | | | | |
| | | | _ | | e Accura | cy Appro | ach and L | anding | | |
| COMPL | FTIO | N STAN | DADD | c. | | | | | | |
| | | | | | | | | | | |
| | | | | | | | onducted to increa | | | |
| coordina | tion on | the liste | d mane | uvers. | o birouru | utterript | | | , | |

| 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 | |

| Dual | Solo | Dual Night | XC XC | XC XC | Dual Inst. | Night LD. | AATD | Pre Post | GI | Cockpit Management |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|--------------|------------|-------------|--------|--------------------------------------------------------------------------------------------------|
| MIN | | | | | | | | 0.5 | | ☐ After Landing Procedures |
| 1.7 | | | | | | | | 0.5 | | |
| 2.0 | | | | | | | | 0.5 | | COMPLETION STANDARDS: |
| STAGE | X FLIC | GHT LE | ESSON | 21 <u>DU</u> | JAL-LO | CAL | | | | All maneuvers will be performed according to the Commercial Pilot Airma Certification Standards. |
| LESSO | N OBJI | ECTIVE | : | | | | | | | INSTRUCTOR NOTES: |
| The objections the choose the cho | | | | | dent's V | FR profi | ciency. Tl | he instru | ctor i | |
| CONTE | NT: | | | | | | | | | |
| Lesson 1 | Review | | | | | | | | | |
| | _ | Chand | | | | | | | | |
| | | Eights Steep Stalls Maneu Lazy Steep Takeof | Power Py Turns Power Po | er-Off er-On elerated During Climbs nal swind t-Field | Slow Fli | | ach and I | Landing | | |
| | | | Norn | nal | iings | | | | | |
| | | Ĺ | Cros | | | | | | | |
| | | L | 」Shor]Soft- | t-Field | | | | | | |
| | | _ | _ | | antad (D | alked) La | ndina | | | |
| | | J GO-AF | ouna ri | ioni Kej | ccica (B | aikeu) La | numg | | | |

☐ Power-Off 180 Degree Accuracy Approach and Landing

| | | _ | | | | | | | | | |
|------------|-----------------------------------------------------------------|---------------|------------|------------|---------------|--------------|------|-------------|----|--|--|
| 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 X FLIGHT LESSON 22 <u>DUAL-LOCAL</u> LESSON OBJECTIVE: | | | | | | | | | | |

This lesson is the final dual review of the commercial flight maneuvers. The objective is to determine the student's preparedness for the last stage check.

CONTENT:

Lesson Review

| Chandelles |
|-------------------------------------------------------|
| Power-Off 180 Degree Accuracy Approach and Landing |
| ☐ Eights-On-Pylons |
| Steep Turns |
| Takeoffs and Landings |
| ☐ Short-Field |
| ☐ Soft-Field |
| Power-Off 180 Degree Accuracy Approach and Landing |
| Go-Around From Rejected (Balked) Landing |
| ☐ Simulated Emergency Procedures |
| Landing Gear Malfunction |
| Systems and Equipment Malfunction |
| ☐ Emergency Descent |
| ☐ Emergency Approach and Landing |

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:

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI | | |
|-----------|---------------------------------------------------|----------------------|---------------------|------------------|-----------------------|------------------------|------------|-------------|----------|--|--|
| | | | | | | | | | 0.5 | | |
| | | | | | | | | | 0.5 | | |
| | TAGE X FLIGHT LESSON 23 QUIZ LESSON OBJECTIVE: | | | | | | | | | | |
| LESSO. | N OBJI | ECTIVE | Ľ: | | | | | | | | |
| | ective o | f this les | sson is | to test tl | ne studen | ıt's knowl | edge of th | is stage | througl | | |
| quiz. | | | | | | | | | | | |
| CONTE | CONTENT: The quiz will cover the following areas: | | | | | | | | | | |
| Lesson | Lesson Review | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | ft Airw ft Syste | | s Requir | ements | | | | | |
| | |] Aircra] Airspa | - | ems | | | | | | | |
| | | - | | ucts/Ser | vices | | | | | | |
| | | | _ | nd Stalls | S | | | | | | |
| | | - | _ | / E' 11 | | | | | | | |
| | | _ | Shor Soft | | | | | | | | |
| | | | _ | | 80 Degre | e Accura | cy Maneu | vers | | | |
| | | _ |] Steep | Turns | J | | , | | | | |
| | | | _ | ndelles | | | | | | | |
| | | L | _ | Spirals | S | | | | | | |
| | | | Lazy | r 8°s n Pylon | ç | | | | | | |
| | | _ | _ 030 | 11 1 y1011 | 3 | | | | | | |
| COMPI | LETIO | N STAN | DARD | S: | | | | | | | |
| This les | con ic | namplata | whon | the stre | lant gaar | os o 700/ | or hotto | In ode | lition 1 | | |
| instructo | son is (or is resi | ompiete | for revi | ewing t | ient scor hose que | es a 70% stions mis | or better | . in add | nuon, 1 | | |
| | | | | . 3 | 1 | | | | | | |

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI |
|------------|------|---------------|------------|------------|---------------|--------------|------|-------------|-----|
| MIN 1.0 | | | | | | | | 0.5 | 1.5 |
| 1.0 | | | | | | | | 0.5 | 1.5 |

STAGE X FLIGHT LESSON 24 DUAL-STAGE CHECK

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 the KN, RM or SK lines 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.

| KN: |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RM: |
| SK: |
| Airworthiness Requirements (AOI, Task B) |
| KN: |
| RM: |
| SK: |
| Preflight Assessment (AOII, Task A) |
| KN: |
| RM: |
| SK: |
| Weather Information (AOI, Task C) |
| KN: |
| RM: |
| SK: |
| Cross-Country Flight Planning (AOI, Task D) Performance and Limitations (AOI, Task F) Emergency Equipment and Survival Gear (AOIX, Task D) National Airspace System (AOI, Task E) High Altitude Operations (AOVIII, Tasks A and B) KN: RM: SK: |
| Operation of Systems (AOI, Task G) KN: RM: SK: Human Factors (AOI, Task H) KN: RM: SK: |
| Spin Awareness (AOVII, Task E) KN: RM: SK: |
| Flight Portion of Practical Test: All SK elements must be evaluated. At least one |

Pilot Qualifications (AOI, Task A)

Flight Portion of Practical Test: All SK elements must be evaluated. At least one KN and RM element from each task will be evaluated. This may be accomplished through questions asked during the ground portion of the test, or as safety of flight permits, asking questions during the flight to test KN and RM elements not evident in the demonstrated skills.

| Flight Deck Management (AOII, Task B) – Evaluated throughout the flight SK: KN: RM: | PERFORMANCE MANEUVERS Steep Turns (AOV, Task A) or Steep Spirals (AOV, Task B) Chandelles (AOV, Task C) or Lazy Eights (AOV, Task D) SK: KN: RM: |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communications and ATC Light Signals and Runway Lighting Systems (AOIII, Task A) – Evaluated throughout the flight SK: KN: RM: | GROUND REFERENCE MANEUVER Eights on Pylons (AOV, Task E) SK: KN: RM: |
| Operation of Systems (AOI, Task G) – Evaluated throughout the flight SK: KN: RM: EMERGENCY OPERATIONS (These tasks inserted at times selected by the evaluator): Systems and Equipment Malfunction (AO IX, Task C) - At least three system malfunctions Emergency Descent (AOIX, Task A) Emergency Approach and Landing (AOIX, Task B) SK: KN: | AIRPORT OPERATIONS, TAKEOFF'S, LANDINGS and GO AROUNDS Traffic Patterns (AOIII, Task B) Norman Takeoff and Climb (AOIV, Task A) Normal Approach/Landing (AOIV, Task B) Soft-Field Takeoff and Climb (AOIV, Task C) Soft-Field Approach and Landing (AOIV, Task D) Short-Field Takeoff and Max 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) SK: KN: RM: |
| RM: GROUND OPERATIONS: Preflight Assessment (AOII, Task A) Engine Starting (AOII, Task C) & Emergency Equipment (AOIX, Task D) Taxiing (AOII, Task D) Before Takeoff Check (AOII, Task F) After Landing, Parking and Securing (AOXI, Task A) SK: KN: RM: | COMPLETION STANDARDS: The student will demonstrate proficiency in strict accordance with the Commercial Pilot – Airplane Airman Certification Standards. and will OK: Task performed satisfactorily within ACS Standards U: Performance on task not within ACS Standards. Explanation of unsatisfactory performance in KN, RM and/or SK lines as appropriate. NC: Task not evaluated due to not completing the test – weather cancellation, maintenance, termination due to failure of earlier task, etc. |
| CROSS COUNTRY 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) SK: KN: RM: | EXAMINER NOTES: |
| 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) SK: KN: RM: | |