SUNRISE AVIATION, INC.

PILOT SCHOOL CERTIFICATE #FPQS990D

TRAINING COURSE OUTLINE

ALL LOCATIONS

FLIGHT INSTRUCTOR CERTIFICATION COURSE
AIRPLANE SINGLE-ENGINE

ORIGINAL

DECEMBER 2024

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FAA: APPROVED

DATE: _____

ORLANDO FSDO-15

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SUNRISE AVIATION, INC.

1. Sunrise Aviation, Inc., has its main base of operations at the Ormond Beach Municipal Airport, Ormond Beach, Florida, and holds Air Agency Certificate FPQS990D. Sunrise Aviation is owned and operated as:

   Sunrise Aviation, Inc.
   740 Airport Road
   Ormond Beach, Florida 32174

   a. Sunrise Aviation, Inc. operates from 2 additional satellite bases located at:

      i. Cecil Field (KVQQ): 13450 Lake Fretwell St., Jacksonville, FL 32221

      ii. Lakeland (KLAL): 3131 Flightline Dr., Lakeland, FL 33811

2. **Course Title:** Flight Instructor Certification Course – Airplane Single-Engine

3. This Training Course Outline meets all the curriculum requirements for the Flight Instructor Certification Course (Airplane Single-Engine) contained in Appendix F of Part 141 of the Federal Aviation Regulations.

4. The training syllabus included with this outline contains a separate ground training section and a flight training section which may be taught concurrently or separately.

5. **Course Objective:** The course objective is to provide the student with the knowledge, skill, and aeronautical experience necessary to meet the requirements for a Flight Instructor-Certificate with an Airplane Category Rating and a Single-Engine Class Rating.

6. **Course Completion Standards:** To meet the course completion standards, the student must demonstrate through ground and flight tests and show through appropriate records that he/she meets the knowledge, skill, and experience requirements necessary to obtain a Flight Instructor Certificate with an Airplane Category Rating and Single-Engine Class Rating.

7. **Ground Instructional Facilities:** Ground instructional facilities are located at all 3 Florida locations:

Ormond Beach (KOMN):

a) **Lecture Room #1.**
This classroom is 14' x 16'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room and is equipped with a projector mounted overhead and an instructor computer console. The maximum number of students that may be trained in this room at any one time is 12 to 20 students depending on the room configuration.

b) **Lecture Room #2.**
This classroom is 12' x 19'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room and is equipped with a projector mounted overhead and an instructor computer console. The maximum number of students that may be trained in this room at any one time is 12 to 20 students depending on the room configuration.

c) **Lecture Room #3.**
This classroom is 15' x 12'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room and is equipped with a projector mounted overhead and an instructor computer console. The maximum number of students that may be trained in this room at any one time is 10 to 15 students depending on the room configuration.

d) The training rooms are well-lighted, and the temperature is thermostatically controlled. Each room is well-ventilated and conforms to local building, sanitation, and health codes. The rooms are designed and located so that students will not be distracted by the instruction conducted in other rooms, or by flight and maintenance operations on the airport.

e) **Ground Training Aids** include computers, projectors, charts, and model airplanes.

Cecil Field (KVQQ)

These facilities consist of the following rooms in FSCJ Buildings J & K.

a) Classroom #K-145.
This classroom is 36' x 39'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 40.

b) Classroom #K-143.
This classroom is 24' x 40'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 20.

c) Classroom #K-141.
This classroom is 29' x 40'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 36.

d) Classroom #K-135
This classroom is 35' x 40'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 50.

e) Classroom #K-133.
This classroom is 32' x 30'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 24.

f) Classroom #K-131.
This classroom is 32' x 30'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 24.

g) Classroom #J-118.
This classroom is 24' x 32'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. It may be equipped with PCATDs to enhance instruction. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 20.

h) Classroom #J-117.
This classroom is 20' x 38'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 20.

i) Classroom #J-115.
This classroom is 20' x 33'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room. This classroom has a multimedia computer instructor station. The maximum number of students that may be trained in this room at any one time is 16.

j) Other classrooms at FSCJ's Cecil Center South may be utilized as necessary as long as sufficient tables and chairs are provided. Small group presentations may be conducted in individual offices, library, classrooms, simulator rooms, or other similar facilities as long as that space meets all Part 141 and local requirements.

k) The training rooms at FSCJ are well-lighted and the temperature is thermostatically controlled. Each room is well-ventilated and conforms to local building, sanitation, and health codes. The rooms are designed and located so that students will not be distracted by the instruction conducted in other rooms, or by flight and maintenance operations on the airport.
l) **Ground Training Aids** include computer, projector, charts, and model airplanes.

Lakeland (KLAL):

a) **Lecture Room #1.**
This classroom is 14' x 16'. It is equipped with sufficient tables and chairs for each class conducted there. This classroom has a white board at the instructor's end of the room and is equipped with a projector and an instructor computer console. The maximum number of students that may be trained in this room at any one time is 4.
b) The training room at Lakeland Flightline Drive is well-lighted and the temperature is thermostatically controlled. The lecture room is well-ventilated and conforms to local building, sanitation, and health codes. The room is designed and located so that students will not be distracted by the instruction conducted in other rooms, or by flight and maintenance operations on the airport.
c) **Ground Training Aids** include computer, projector, charts & model airplanes.

8. **Airport:** Ormond Beach airport (KOMN) is the main operations base for training in this course. Flight training operations, including the dispatching of flights, will also be conducted at Cecil Field Satellite (KVQQ) and Lakeland Satellite (KLAL). All three airports have hard-surface runways and meet the requirements of 14 CFR 141.38 for day and night flight operations. Fuel service is available 0800 to 1700 each day. Scheduled maintenance will be conducted at Ormond Beach Municipal Airport. Line Maintenance will be conducted as necessary at all three locations.

9. **Airport Facilities:** Each airport is equipped with **pilot briefing and flight planning areas**. These are permanent structures located at: Building 1 & 2 in Ormond Beach (KOMN), Building J at Cecil Field (KVQQ), and Flightline Drive in Lakeland (KLAL). These areas are equipped with computers and telephones for filing flight plans and receiving pilot weather briefings.

10. **Aircraft:** Airplanes to be used for flight training in this course are the Cessna 152, Cessna 172, and Piper Cadet or Warrior. These aircraft will meet the requirements of 14 CFR 141.39. Radio equipment will consist of at least one VHF transmitter and receiver and at least one VOR navigational receiver, and one transponder. In addition, each airplane is equipped for day or night VFR and IFR flying as specified in 14 CFR 91.205 when required.

11. **Flight Training Devices:** Sunrise Aviation utilizes the following types of FAA approved training devices:

    a. Redbird LD Advanced Aviation Training Device (AATD). This device may be set to emulate a variety of aircraft appropriate for flight training including the Cessna Skyhawk (C172). This device includes a wrap-around visual system that covers more than 200 degrees.

12. **Chief Flight Instructor:** The Chief Flight Instructor designated for this course must meet or exceed the requirements for Chief Flight Instructor as listed in 14 CFR 141.35 (a)(1 thru 5) and (d) (1 and 2).

13. **Assistant Chief Flight Instructor:** The Assistant Chief Flight Instructor assigned to this course must meet or exceed the requirements for Assistant Chief Flight Instructor as listed in 14 CFR 141.36(a) (1 thru 5) and (d) (1 and 2).

14. **Flight Instructor:** Each Flight Instructor assigned to this course must hold at least a commercial pilot certificate and a flight instructor certificate, must meet the requirements of 14 CFR 61.195(h)(2) or (3), and meet the requirements of 14 CFR 141.33(a)(3). Also, each Flight Instructor must hold a current FAA Medical Certificate or meet the requirements under BasicMed.

15. **Chief Ground Instructor:** The Chief Ground Instructor designated for this course must meet or exceed the requirements for Chief Ground Instructor as listed in 14 CFR 141.35(e).

16. **Assistant Chief Ground Instructor:** The Assistant Chief Ground Instructor assigned to this course must meet or exceed the requirements as listed in 14 CFR 141.36(e).

17. **Ground Instructor:** Each Ground Instructor assigned to this course must hold an advanced ground instructor certificate or a flight instructor certificate and must meet or exceed the requirements of 14 CFR 141.33(a)(3) and 14 CFR 61.195(h)(1).

PERSONNEL FOR ALL LOCATIONS

Chief Flight Instructor:	**As designated in WEBOPSS**
Asst Chief Flight Instructor:	**As designated in WEBOPSS**
Chief Ground Instructor:	**As designated in WEBOPSS**
Asst Chief Ground Instructor:	**As designated in WEBOPSS**

SUNRISE AVIATION, INC.

PILOT SCHOOL CERTIFICATE #FPQS990D

FLIGHT INSTRUCTOR CERTIFICATION COURSE
AIRPLANE SINGLE-ENGINE (ASE)

GROUND TRAINING SYLLABUS

DECEMBER 2024

INTRODUCTION

This ground training syllabus meets the requirements of 14 CFR Part 141 Appendix F 3(a)(1) and (b)(1) and (2).

This syllabus is divided into two (2) stages with twenty-eight (28) separate lessons. Each ground training lesson has stated objectives and completion standards that must be satisfied for the lesson to be complete. Adequate knowledge of the specified study material is necessary for satisfactory progress in the individual lessons and for overall progress in the course. The individual lesson times are not mandatory. The hours in each lesson are primarily for instructor and student guidance. However, total specified training hours at course completion must be met. The lessons in each stage may be presented in any order as long as training objectives are not compromised. However, the Stage Checks (Lessons 15 and 28), should be presented as the last lesson in each stage. Stage I is designed to be presented prior to Stage II.

Every lesson contains a training outline and a detailed list of items that the student must successfully complete. Normally, a lesson is completed in the allotted time. If a student is unable to master the lesson in the specified time, it will be necessary to repeat all or a portion of the lesson until completion standards are met.

The course completion check at the end of this course assures that the student acquired the aeronautical knowledge required to satisfactorily complete the FAA Fundamentals of Instruction (FOI) and Flight Instructor Airplane (FIA) Knowledge Tests.

A record of the ground training received will be formally documented on the log of student ground training on the next page. The names and grades of any tests taken will also be recorded.

GROUND TRAINING LOG

Student Name: _____

Lesson Number	Lesson Time (hh:mm)	Actual Time Comp.	Date Completed	Grade	Instructor Signature
Ground Training Stage I					
1	02:00				
2	01:00				
3	01:00				
4	01:00				
5	02:00				
6	00:30				
7	00:30				
8	01:00				
9	00:30				
10	01:00				
11	00:30				
12	01:00				
13	01:00				
14	01:00				
15 ◆	00:30				
Total Stage I	**14:30**				

◆ Denotes Stage Check or Course Completion Examination.

GROUND TRAINING LOG

Student Name: _____

Lesson Number	Lesson Time (hh:mm)	Actual Time Comp.	Date Completed	Grade	Instructor Signature
Ground Training Stage II					
16	02:00				
17	02:00				
18	02:00				
19	01:00				
20	01:00				
21	02:00				
22	02:00				
23	01:30				
24	01:30				
25	02:00				
26	02:00				
27◆	03:00				
28◆	03:30				
Total Stage II	**25:30**				
Total Stage I-II	**40:00**				

TRAINING SYLLABUS

I. GRADING CRITERIA:

A. The overall performance grade is based on the knowledge, preparation and attitude of the student for each lesson completed.

B. Grading criteria is to be based upon the building block method of instruction. A lesson is not completed unless the instructor is satisfied with the student's performance in all areas and awards the student a grade of Satisfactory (S) on the entire lesson. The above criteria should be used as a guideline for this assessment. Students will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in class discussion and by correctly answering the instructor's verbal and written questions. Minimum passing score on the final test is 80%. Incorrect responses will be corrected to reinforce and ensure student understanding.

Ground Training Objective
Stage I

The student will become familiar with learning theories, styles and domains of learning, and communication techniques. The student will learn about the teaching process, teaching methods, lesson plans, assessment of student performance, and human factors. The student will also learn about risk management single-pilot resource management. This portion of the ground training syllabus will also help prepare the student to take the FAA Fundamentals of Instruction (FOI) Knowledge Test and will utilize the current edition of the FAA's Aviation Instructor's Handbook as a guide. Additional topics include Safety of Flight, Fitness for Flight, Federal Aviation Regulations, Aeronautical Information Manual, Airman Certification Standards, and other appropriate FAA handbooks and publications.

Ground Training Completion Standards
Stage I

This stage is complete when the student has satisfactorily completed all of the ground lessons and passed the Stage Examination. Minimum passing score is 80% on the Stage Examination. Incorrect test responses will be corrected to ensure student understanding.

STAGE I

LESSON 1: (01:30 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain essential knowledge of risk management as it pertains to flying and flight instruction. Specifically, the student will learn about the aeronautical decision-making process, single-pilot resource management, models of decision-making and checklists, assessing risk and self-assessment.

II. CONTENT

A. Risk Mgmt & Single-Pilot Resource Mgmt
1. Defining Risk Management
2. Principles of Risk Management
3. The Risk Management Process
4. Implementing the Risk Management Process
5. The PAVE Checklist
6. IMSAFE Checklist
7. Assessing Risk
8. Flight Risk Assessment Tools (FRAT)
9. Three-P Model (3P)
10. Pilot Self-Assessment
11. Situational Awareness
12. Single-Pilot Resource Management
13. 5P Checklist
14. Aeronautical Decision-Making (ADM)
15. Factors Affecting Decision-Making
16. Hazardous Attitudes
17. Stress Management
18. Workload Management
19. Teaching ADM
20. Assessing SRM Skills

B. Fitness for Flight
1. Motion Sickness
2. Illness
3. Medication
4. Alcohol
5. Fatigue
6. Obstructive Sleep Apnea (OSA)
7. Emotion
8. Hypoxia
9. Ear Block
10. Sinus Block
11. Scuba Diving/Decompression Sickness
12. Hyperventilation
13. Carbon Monoxide Poisoning

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 2: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain instructional knowledge of human behavior and how it applies to a learning environment. Specifically, the student will learn about human needs, defense mechanisms, and how students react to stress.

II. CONTENT

A. Understanding Human Behavior
1. Definitions Human Behavior
2. Motivation
3. Maintaining Motivation
4. Human Needs & Motivation
5. Maslow's Hierarchy of Needs
6. Human Nature & Motivation
7. Defense mechanisms
8. Repression
9. Denial
10. Compensation
11. Projection
12. Rationalization
13. Reaction Formation
14. Fantasy
15. Displacement
16. Learner Emotional Reaction
17. Anxiety
18. Impatience
19. Worry or Lack of Interest
20. Physical Discomfort, Illness, Fatigue & Dehydration
21. Apathy
22. Normal Reactions to Stress
23. Abnormal Reactions to Stress
24. Psychologically Abnormal Learners
25. Teaching the Adult Learner

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 3: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will be introduced to learning theories, including the principles of the learning process and how they are applied to flight training. The student will understand how each of the elements of the learning process are interrelated. In addition, the student will become familiar with the characteristics of learning, learning styles, domains of learning, and the transfer of learning.

II. CONTENT:

A. Discovering Learning Theories
1. Learning Defined
2. Behaviorism
3. Cognitive Theory
4. Constructivism
5. Perception and Insights
6. Forgetting and Retention
7. Characteristics of Learning
8. Principles of Learning
9. Laws of Learning

B. Exploring Learning Styles and Domains
1. Learning Styles
2. Domains of Learning
3. Cognitive Domain
4. Psychomotor Domain
5. Affective Domain
6. Transfer of Learning

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 4: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will learn the principles of effective communication. In addition, the student will learn the barriers to communication and how to avoid them.

II. CONTENT:

A. Effective Communication
1. Basic Elements of Communication
2. Source
3. Symbols
4. Receiver
5. Barriers to Effective Communication
6. Lack of Common Experience
7. Confusion Between the Symbol and Symbolized Object
8. Overuse of Abstractions
9. External Factors
10. Interference
11. Developing Communication Skills
12. Role Playing
13. Instructional Communication
14. Listening
15. Questioning
16. Instructional Enhancement

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 5: (02:00 Hour, Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will learn the principles of the teaching process and the elements of effective teaching. This lesson includes classroom training techniques.

II. CONTENT:

A. The Teaching Process
1. What is Teaching?
2. Instructor's Code of Ethics
3. Course of Training
4. Preparation of a Lesson
5. Importance of ACS in Curricula
6. Presentation of a Lesson
7. Organization of Material
8. Training Delivery Methods
9. Lecture Method
10. Teaching Lecture
11. Preparing the Teaching Lecture
12. Advantages and Disadvantages of the Lecture Method
13. Discussion Method
14. Guided Discussion Method
15. Problem Based Learning
16. Teaching Higher Order Thinking Skills (HOTS)
17. Scenario Based Training
18. E-Learning
19. Cooperative or Group Learning
20. Demonstration-Performance Method
21. Telling-and-Doing Technique
22. Integrated Method of Flight Instruction
23. Instructional Aids & Training Technologies
24. Types of Instructional Aids
25. Test Preparation Material
26. Future Developments

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 6: (00:30 Hour, Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will obtain instructional knowledge regarding how to evaluate the performance of a student. Specifically, the student will learn about performance evaluations and the various types of assessments and critiques. This ground lesson includes student evaluation and testing.

II. CONTENT

A. Assessment
1. General Characteristics of Effective Assessment
2. Traditional Assessment
3. Authentic Assessment
4. Learner-Centered Assessment
5. Characteristics of an Effective Assessment
6. Choosing an Effective Assessment Method
7. Critiques and Oral Assessments
8. Types of Questions to Avoid
9. Scenario-Based Training

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 7: (00:30 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain instructional knowledge regarding how a course of training is conducted. Specifically, the student will become familiar with blocks of learning, syllabi, and lesson plans, including how to use a lesson plan. This lesson includes the topics of course development and lesson planning.

II. CONTENT

A. Planning Instructional Activity
   1. Course of Training
   2. Blocks of Learning
   3. Training Syllabus
   4. Lesson Plans
   5. Characteristics of a Well-Planned Lesson
   6. Scenario-Based Training (SBT)
   7. Duties, Responsibilities, and Authority of the Aviation Instructor
   8. The Positive Approach
   9. Single-Pilot Resource Management (SRM)

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 8: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will learn what is expected of a professional flight instructor, including qualifications, responsibilities, continuing education requirements, and teaching skills. In addition, prospective instructors will learn more about how to improve their professional image.

II. CONTENT

A. Aviation Instructor Responsibilities and Professionalism
   1. Aviation Instructor Responsibilities
   2. Additional Flight Instructor Responsibilities
   3. Aviator's Model Code of Conduct
   4. Safety Practices and Accident Prevention
   5. Flight Instructor Qualifications
   6. Professionalism
   7. Responsibility to Students
   8. Professional Development
   9. FAA Pilot Proficiency Awards Program
   10. Reducing Student Frustrations
   11. Become a Positive Role Model
   12. Enhancing Your Qualifications
   13. Expanding Your Technical Knowledge
   14. Building Aeronautical Experience
   15. Improving Teaching Skills
   16. Polishing Your Image

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 9: (00:30 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will learn about techniques of flight instruction. Topics include use of simulators, demonstration-performance training delivery method, and integrated flight instruction. Additional safety considerations will also be presented including personal weather minimums, positive exchange of flight controls, sterile flight deck rule, and use of distractions.

II. CONTENT

A. Techniques of Flight Instruction
   1. Personal Weather Minimums
   2. Practical Flight Instructor Strategies
   3. Integrating Instruction Techniques
   4. Use of Flight Simulation Devices
   5. Logging Simulator Training Time
   6. Demonstration-Performance Training Delivery Method
   7. Positive Exchange of Flight Controls
   8. Sterile Flight Deck (Cockpit) Rule
   9. Use of Distractions
   10. Integrated Flight Instruction (use of outside and instrument references)
   11. Assessment of Piloting Ability
   12. Practical Test Recommendations

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 10: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:
During this lesson, the student instructor will learn to emphasize and practice risk management in all phases of instruction using accepted risk management tools. Risk management skills learned by the new instructors should be passed on as a tool for use by their future students.

II. CONTENT

A. Teaching Practical Rish Management during Flight Instruction
1. Poor Risk Management
2. Risk Analysis Using the PAVE Checklist
3. Risk Management Teaching Techniques by Phase of Instruction
4. Managing Risk during Flight Instruction
5. Managing Risks while Teaching Takeoffs and Landings

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 11: (00:30 Hour, Ground Instruction)

I. OBJECTIVE:
During this lesson, the student instructor will obtain instructional knowledge of how to operate an airplane from the right seat. Specifically, the student will learn techniques for guidance and flight instruction that will be provided to students during flight lessons.

II. CONTENT

A. Transitioning to the Right Seat
1. The Right Seat
2. Orientation
3. Proficiency
4. Practice Instruction
5. Positive Exchange of Flight Controls
6. Use of Distractions
7. Giving Efficient Instruction
8. Insurance and Liability

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 12: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain instructional knowledge about essential flight safety practices. Specifically, the student will learn to analyze weather conditions, preflight activities, ground operations and inflight operations in relation to how they apply to flight instruction.

II. CONTENT

A. Teaching Flight Safety
1. Preflight Considerations
2. Marginal Weather Judgment Opportunities
3. Ground Operations
4. Passenger Briefing
5. Taxi Briefing
6. Checklist Use
7. Propeller Hazards
8. Taxiing
9. Runway Incursion Avoidance
10. Land and Hold Short Operation
11. Airport, Runway, and Taxiway Signs, Lighting, and Markings
12. Crew Briefing Priority to Takeoff
13. Wake Turbulence Avoidance
14. Collision Avoidance
15. Visual Scanning
16. Wind Shear
17. Stall/Spin Awareness
18. Fuel Exhaustion
19. Developing Judgment Skills

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 13: (02:00 Hours, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain instructional knowledge of the ground training requirements for recreational, private and commercial pilots. Specifically, the student will review and gain up-to-date knowledge of 14 CFR Part 61. Other Federal Aviation Regulations will also be reviewed. The student will review pertinent parts of other aeronautical publications such as the AIM, Advisory Circulars, and the Airman Certification Standards.

II. CONTENT

A. Regulations and Related Publications
1. 14 CFR Part 1 (Applicable Definitions)
2. 14 CFR Part 43 including Appendix A (Preventive Maintenance)
3. 14 CFR Part 61, Subpart C, Student Pilots
4. 14 CFR Part 61, Subpart D, Recreational Pilots
5. 14 CFR Part 61, Subpart E, Private Pilots
6. 14 CFR Part 61, Subpart F, Commercial Pilots
7. 14 CFR Part 68 (Basic Med)
8. 14 CFR Part 91 and 135 (Applicable Sections)
9. 14 CFR 119.1
10. FAR Part 141, Appendix A, Recreational Pilot Certification Course
11. FAR Part 141, Appendix B, Private Pilot Certification Course
12. FAR Part 141, Appendix D, Commercial Pilot Certification Course
13. NTSB 830
14. Aeronautical Information Manual (Applicable Subjects)
15. Appropriate FAA Advisory Circulars
16. Airman Certification Standards (Recreational, Private and Commercial)

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 14: (01:00 Hour, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain instructional knowledge regarding the privileges and responsibilities that apply to a certificated flight instructor. Specifically, the student will learn how to provide ground training under 14 CFR Parts 61 and 141. In addition, the student will become familiar with required endorsements, record keeping, and knowledge/practical test procedures.

II. CONTENT

A. Exercising Instructor Privileges

1. Preparing to Instruct
2. Certificates and Ratings
3. Your Medical Certificate
4. Providing Instruction Under 14 CFR Part 61 and Part 141
5. Aeronautical Knowledge Requirements
6. Home Study Courses
7. Aeronautical Experience Requirements
8. Authorized Instructor
9. Records
10. CFI Renewal
11. Ground Instructors
12. Training the Student Pilot
13. Obtaining a Student Pilot Certificate
14. Medical Certificates and Basic Med
15. Limitation and Waivers
16. Advising Your Students
17. Medical Application Form/MedXpress)
18. Logging Training Time
19. Endorsements (AC 61-65 current version)
20. Pre-Solo Knowledge Test
21. Solo Privileges
22. Solo Cross-Country
23. Class B Airspace
24. Knowledge Tests
25. Practical Tests
26. IACRA and the 8710-1 Form
27. Additional Training and Endorsements
28. Conducting a Flight Review
29. Airman Certification Standards
30. Satisfactory/Unsatisfactory Performance
31. Recreational Pilots
32. Flight Instructor Training

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 15: (0:30 Hour, Stage I Exam)

I. OBJECTIVE:
The exam administered during this lesson will evaluate the student's comprehension and instructional knowledge of material presented during this stage of training.

II. CONTENT:

A. Stage I Examination
B. Critique of Stage I Examination

III. COMPLETION STANDARDS:
This lesson will be complete when the student has passed the Stage I Examination with a minimum passing score of 80% and incorrect test responses have been corrected to ensure student understanding.

Ground Training Objective
Stage II

During Stage II, the student will begin to apply the principles of planning and organizing ground and flight training lessons. The student will acquire practical experience by conducting practice ground training lessons. In addition, the student will obtain the instructional knowledge required to teach private and commercial pilot students, including recognition, analysis, and correction of common student errors.

Ground Training Completion Standards
Stage II

This Stage is complete when the student has completed the Stage II Exam, as well as the Fundamentals of Instruction and Flight Instructor-Airplane End of Course Exams, with a minimum passing score of 80% and the instructor has reviewed each incorrect response to ensure complete understanding.

STAGE II

LESSON 16: (02:00 Hours, Ground Instruction)

I. OBJECTIVE:
During this ground lesson, the student will obtain instructional knowledge regarding how to teach the private (and recreational pilot) student. Specifically, the student will become familiar with ways to teach airplane systems, basic aerodynamics, performance data, airspace, radio procedures, and weather-related information.

II. CONTENT

A. Presenting Private Pilot (and Recreational Pilot) Knowledge
1. Teaching the Private Pilot Student
2. Explaining Airplane Systems
3. Powerplants
4. Troubleshooting Problems
5. Introducing Aerodynamics
6. Designing Your Own Airplane
7. Describing Airspace
8. Practicing Radio Procedures
9. Predicting Weather
10. Teaching Regulations
11. Calculating Performance Data
12. Planning Cross-Country Flights
13. Private Pilot Aeronautical Decision Making

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 17: (02:00 Hours, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will continue to obtain the instructional knowledge required to teach the flight skills needed by the private (and recreational) student pilot. Specifically, the student will learn to teach ground operations, private pilot flight maneuvers, emergency operations, airport operations, takeoffs and landings, preparation for the first solo, performance takeoffs and landings, night flying, instrument flying, cross-country procedures, and preparation for the practical test.

II. CONTENT

A. Building Flight Skills
1. Instructing the Student Pilot
2. Introducing Ground Operations
3. Locating the Practice Area
4. Teaching Private Pilot Maneuvers
5. Performing Basic Maneuvers
6. Performing Flight Maneuvers
7. Flying Ground Reference maneuvers
8. Accomplishing Emergency Procedures
9. Conducting Airport Operations
10. Operating in the Traffic Pattern
11. Taking Off
12. Landing
13. Flying Solo
14. Executing Performance Takeoffs and Landing
15. Introducing Special Flight Operations
16. Flying at night
17. Using Instrument References
18. Teaching Cross-Country Flying
19. Preparing for the Practical Test

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 18: (02:00 Hours, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain instructional knowledge regarding how to teach commercial students. Specifically, the student will review and gain up-to-date information on commercial pilot privileges, advanced aerodynamics, performance data, systems, and commercial decision making, including crew resource management and situational awareness.

II. CONTENT:

A. Imparting Commercial Knowledge
   1. Teaching the Commercial Pilot Student
   2. Introducing Advanced Systems
   3. High Performance Powerplants
   4. Constant-Speed Propellers
   5. Retractable Landing Gear
   6. Environmental Systems
   7. Oxygen Systems
   8. Cabin Pressurization
   9. Ice Control Systems
   10. Exploring Aerodynamics
   11. High Lift Devices
   12. High Speed/High Altitude Flight
   13. Planning Flights
   14. Commercial Pilot ADM
   15. Single Pilot Resource Management (SRM)
   16. Crew Resource Management (CRM)

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 19: (01:00 Hour, Practice Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will learn to conduct a comprehensive ground training lesson which uses instructional aids other than audiovisual materials.

II. CONTENT:
Conduct the assigned ground training lesson.

III. COMPLETION STANDARDS:
This lesson is complete when the student demonstrates the ability to adhere to a preplanned lesson and communicates effectively without the use of audiovisual materials. At the completion of the lesson, the instructor will evaluate and critique the student's presentation and make specific suggestions for improvement.

LESSON 20: (01:00 Hour, Practice Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will learn to conduct a comprehensive ground training lesson which uses instructional aids including audiovisual material.

II. CONTENT:
Conduct the assigned ground training lesson, demonstrating organization of the subject material and proficiency in the transition from one subject to another.

III. COMPLETION STANDARDS:
This lesson is complete when the student demonstrates the ability to adhere to a preplanned lesson and communicates effectively using instructional aids including audiovisual materials. At the completion of the lesson, the instructor will evaluate and critique the student's presentation and make specific suggestions for improvement.

LESSON 21: (02:00 Hours, Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will obtain instructional knowledge on how to teach commercial pilot skills. Specifically, the student will learn how to instruct pilots on the operation of retractable gear airplanes and on constant-speed propeller operations. An additional focus will be on the teaching of commercial pilot maneuvers.

II. CONTENT:

A. Enhancing Flight Skills
1. Instructing the Commercial Student
2. Teaching in Complex Airplanes
3. Retractable Landing Gear
4. Constant-Speed Propeller Operation
5. Teaching Commercial Pilot Maneuvers
6. Perfecting Steep Turns
7. Performing Chandelles
8. Flying Lazy Eights
9. Executing Eights-on-Pylons
10. Executing Steep Spirals
11. Performing Power-Off 180° Accuracy Approaches and Landings
12. Refining Emergency Procedures
13. Conducting the Long Cross-Country Flight
14. Commercial Pilot Night Flying

III. COMPLETION STANDARDS:
The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 22: (02:00 Hours, Ground Instruction)

I. OBJECTIVE:

During this lesson, the student will obtain the instructional knowledge of the lesson content necessary for specialized instruction. Specifically, the student will become familiar with the basic requirements and procedures for providing specialized instruction, including flight reviews, instrument proficiency checks, and various checkouts or transitions.

II. CONTENT

A. Providing Specialized Instruction
   1. Conducting Flight Reviews
   2. Teaching Aircraft Transitions
   3. Performing Aircraft Checkouts
   4. Complex and High Performance Checkouts
   5. Teaching in Technically Advanced Aircraft (TAA)
   6. Tailwheel Checkouts
   7. High-Altitude Checkouts
   8. Military to Civilian Transition
   9. Instructing in Homebuilt Aircraft
   10. Aeronautical Knowledge Areas Required for an Instrument Rating in a Single Engine Airplane
   11. Instructing Airline Transport Pilots

III. COMPLETION STANDARDS:

The student will demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 23: (01:30 Hour, Practice Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will conduct a comprehensive ground training lesson using instructional aids where appropriate. The student will include all elements of the subjects presented and demonstrate acceptable organization. The student also will gain instructional knowledge of how to teach future flight instructors. Specifically, the student will review ground instruction requirements, FOI material, and practice ground and flight lessons, including emergency procedures and spin training.

II. CONTENT: Conduct a ground training lesson as assigned by the instructor.

III. COMPLETION STANDARDS:
This lesson is complete when the student demonstrates the ability to adhere to a preplanned lesson and effectively communicate the material contained in the lesson. The student will also demonstrate the ability to select the most effective instructional aid for the material presented. The instructor will evaluate and critique the student's presentation and make specific suggestions for improvement.

LESSON 24: (01:30 Hour, Practice Ground Instruction)

I. OBJECTIVE:
During this lesson, the student will conduct a ground training lesson on the subjects assigned by the instructor. The student will strive to correct any deficiencies noted in previous ground instruction sessions and increase the overall effectiveness of the presentation. In addition, the student will review the regulations that specifically apply to flight instructors.

II. CONTENT: Conduct a ground training lesson as assigned by the instructor. Then review the following content on regulations.

A. FAR Part 61, Subpart H, Flight Instructors
1. Applicability
2. Eligibility Requirements
3. Aeronautical Knowledge
4. Flight Proficiency
5. Flight Instructor Records
6. Additional Flight Instructor Ratings
7. Flight Instructor Privileges
8. Flight Instructor Limitations and Qualifications
9. Renewal Requirements for Flight Instructor Certification
10. Reinstatement Requirements of An Expired Flight Instructor Certificate

III. COMPLETION STANDARDS:
This lesson is complete when the student demonstrates the ability to adhere to a preplanned lesson and effectively communicate the material contained in the lesson. The instructor will assess the student's presentation and make specific suggestions for improvement. In addition, through oral quizzing, the instructor will determine that the student has obtained the necessary instructional knowledge to teach the assigned regulations.

LESSON 25: (02:00 Hours, Pilot Briefing and Ground Instruction)

I. OBJECTIVE:
Prior to this lesson, the student will formulate comprehensive answers to essay questions provided by the instructor on the Fundamentals of Instructing using appropriate references. During the discussion, the student will explain the answers given and demonstrate that the material is thoroughly understood. The student will demonstrate the ability to apply this knowledge to basic flight instruction.

II. CONTENT: Presentation on FOI by the student.

A. Fundamentals of Instructing
1. The Learning Process
2. Elements of Effective Teaching
3. Student Evaluation and Testing
4. Course Development
5. Lesson Planning
6. Classroom Training Techniques

III. COMPLETION STANDARDS:
The student will demonstrate the understanding of the fundamentals of instructing at a level that ensures that the teaching process can take place effectively.

LESSON 26: (01:30 Hour Pilot Briefing/Ground Instruction and 00:30 Hour Stage II Practice Exam

I. OBJECTIVE:
During this lesson, the student will demonstrate the ability to apply the FOI knowledge to flight instruction. The exam administered during this lesson evaluates the student's comprehension and instructional knowledge of the material presented during this stage of training.

II. CONTENT: Flight Instructor Oral Questions and Stage II Practice Exam

A. Flight Instructor Oral Questions
1. Aerodynamics of Flight
2. Basic Maneuvers
3. Soft-Field and Short-Field Takeoffs and Landings
4. Advanced Maneuvers
5. Emergency Operations
6. General Subjects

B. Stage II Practice Exam - FOI

III. COMPLETION STANDARDS:
The student will demonstrate an understanding of the concepts presented at a level that ensures that the teaching process can take place effectively. In addition, the student will complete the Stage II Exam with a minimum passing score of 80%, and the instructor will review each incorrect response to ensure complete understanding.

LESSON 27: (02:30 Hours Final Examination (FOI) and 0:30 Hour Debriefing)

I. OBJECTIVE:
This testing session evaluates the student's comprehension of the Fundamentals of Instructing (FOI) material.

II. CONTENT: Fundamentals of Instructing (FOI) Final Examination

III. COMPLETION STANDARDS:
The student will complete the Fundamentals of Instruction (FOI) Final Exam with a minimum passing score of 80%, and the instructor will review each incorrect response to demonstrate satisfactory knowledge of lesson content and achievement of lesson objectives by active participation in discussion and by correctly answering instructor's questions on lesson content.

LESSON 28: (03:00 Hours End-of-Course Examination and 00:30 Debriefing)

I. OBJECTIVE:
This testing session evaluates the student's comprehension of the material presented in Stage II of the flight instructor course. The questions presented in this portion of the final exam will primarily cover the Flight Instructor Airplane Knowledge Test.

II. CONTENT: Flight Instructor – Airplane End-of-Course Examination

A. End-of-Course Examination - FIA
B. Critique of End-of-Course Examination

III. COMPLETION STANDARDS:
This lesson will be complete when the student has passed the End-of-Course Examination with a minimum passing score of 80% and incorrect test responses have been corrected to ensure student understanding.

SUNRISE AVIATION, INC.

PILOT SCHOOL CERTIFICATE #FPQS990D

FLIGHT INSTRUCTOR CERTIFICATION COURSE
AIRPLANE SINGLE-ENGINE (ASE)

FLIGHT TRAINING SYLLABUS

DECEMBER 2024

INTRODUCTION

This Flight Instructor Certification Course Airplane Single-Engine (ASE) Flight Training Syllabus meets or exceeds the requirements of 14 CFR Part 141, Appendix F 4. This syllabus is designed to allow a Commercial Pilot (see enrollment requirements, page 2) to acquire the proficiency and experience needed to meet certificate requirements for a Flight Instructor Certificate (ASE). The performance criteria specified in the syllabus are based on the current FAA Flight Instructor Airplane Airman Certification Standards. All graduates must meet or exceed these standards.

This flight training syllabus contains two (2) stages and seventeen (17) separate lessons. Each lesson includes an "Objective". "Completion Standards" must be met prior to completion of the lesson. The individual lesson and stage times are not mandatory. The hours in each lesson and stage are primarily for instructor and student guidance. However, a student must meet or exceed the minimum training hours specified in this syllabus prior to graduation. The minimum flight times for graduation are listed at the bottom of page 3 of this introduction. Within each stage, lesson sequence may be adjusted due to scheduling or other problems as long as training objectives are not compromised.

The instructor will assign a grade (S, U, or I) to each element within each lesson and an overall grade to the lesson (S, U, or I) determined by the student's flying ability and knowledge of the assigned material.

- S= Satisfactory. Student meets the minimum requirements for the task or flight lesson.
- U=Unsatisfactory. Student fails to meet one or more of the minimum requirements for the task or lesson.
- I=Incomplete. The task could not be completed for any reason other than performance. Any lesson with an incomplete task must also be graded incomplete until all tasks are graded as "S".

Flight lessons are preceded and followed by Preflight and Post Flight discussions and briefings. Although 14 CFR Part 141 does not specify a minimum number of hours for these briefings, the amount of briefing accomplished must be sufficient to ensure training objectives are met.

Every lesson contains a training outline with a detailed list of tasks that the student must successfully complete. Normally, a lesson is completed in the allotted time. If an student is unable to master the lesson in the specified time, it will be necessary to repeat those elements graded unsatisfactory or incomplete until all completion standards are met.

Each stage has an oral examination and flight test as a check of the student's progress which must be satisfactorily completed before continuing to the next stage of training. The course completion check ensures that the student has acquired the aeronautical knowledge and flight skills required by the current FAA Flight Instructor (Airplane) Airman Certification Standards (ACS) for the completion of the Flight Instructor Airplane Single-Engine certification.

A chronological log of the training must be kept. This syllabus includes a log that may be used for that record-keeping. To ensure that by the completion of training the required amount of flight time has been received in each category for which training is necessary, a running total should be kept for each lesson.

TRAINING SYLLABUS

I. ENROLLMENT PREREQUISITES: The applicant must hold a current commercial pilot certificate or an airline transport pilot certificate with an airplane single-engine land category and class rating prior to beginning the flight portion of the course. The applicant must also hold an Instrument Rating with an airplane single-engine land category and class rating. There are no prerequisites for beginning the ground training portion of this course.

II. GROUND TRAINING REQUIREMENTS: The applicant must successfully complete all the required ground training lessons including the Stage Checks.

III. FLIGHT TRAINING REQUIREMENTS: The applicant must successfully complete all flight training lessons, stage checks, and end of course tests.

IV. REQUIREMENTS FOR GRADUATION: To obtain a graduation certificate for the Flight Instructor Certification Course (Airplane Single-Engine), the applicant must:

A. Be at least 18 years of age;
B. Hold at least a current commercial pilot certificate (or airline transport pilot certificate) with an airplane single-engine land category and class rating and instrument airplane rating;
C. Be able to read, speak, write, and understand the English language;
D. Complete all ground training requirements and satisfactorily complete the FAA Fundamentals of Instructing (FOI), and Flight Instructor Airplane (FIA) Knowledge Tests. Completion of an approved ground training course provided by an institution of higher education under a training agreement may substitute for the ground training requirements if a graduation certificate is presented to Sunrise Aviation;
E. Complete all flight training requirements;
F. Receive a logbook endorsement from a certificated flight instructor certifying the applicant received ground and flight training on stall awareness, spin entry, spins, and spin recovery procedures in an aircraft that is certificated for spins and is appropriate to the rating; and
G. Hold a valid FAA medical certificate or a valid and FAA accepted alternate means of medically qualifying such as BasicMed.

FLIGHT TRAINING TABLE FLIGHT INSTRUCTOR (ASE) STAGE I									
LESSON #	**DATE**	**FINAL GRADE**	**DUAL**		**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLIGHT INSTRUCTION**	**STAGE CHECK**	**Total**
1			**1.5**			**1.5**			**1.5**
2			**1.5**			**1.5**			**1.5**
3			**1.5**			**1.5**			**1.5**
4			**1.5**			**1.5**			**1.5**
5			**2.0**			**2.0**			**2.0**
6			**1.5**			**1.5**			**1.5**
7			**1.5**			**1.5**			**1.5**
8			**1.0**			**1.0**			**1.0**
9√			**1.5**			**1,5**		**1.5**	**1.5**
STAGE	**I**	**TOTAL**	**13.5**		**0**	**13.5**	**0**	**1.5**	**13.5**

FLIGHT TRAINING TABLE FLIGHT INSTRUCTOR (ASE) STAGE II									
LESSON #	**DATE**	**FINAL GRADE**	**DUAL**		**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLIGHT INSTRUCTION**	**STAGE CHECK**	**Total**
10			**1.0**		**1.0**	**0.5**	**0.5**		**1.0**
11			**1.5**				**1.5**		**1.5**
12			**1.5**				**1.5**		**1.5**
13			**1.0**				**1.0**		**1.0**
14			**1.5**				**1.5**		**1.5**
15			**1.5**				**1.5**		**1.5**
16			**1.7**				**1.7**		**1.7**
17√√			**1.8**				**1.8**	**1.8**	**1.8**
STAGE	**II**	**TOTAL**	**11.5**		**1.0**	**0.5**	**11.0**	**1.8**	**11.5**
STAGE	**I+II**	**TOTAL**	**25.0**		**1.0**	**14.0**	**11.0**	**3.3**	**25.0**

√ = Stage Check √√ = End of Course Check

FLIGHT TRAINING TABLE: NOTES

Sunrise Aviation currently utilizes FAA approved Redbird LD Advanced Aviation Training Devices (AATDs) in its training courses. These devices may be used for 5% of the minimum 25 flight hours in this Course, or 1.25 hours. These devices may be particularly useful in reviewing the Basic Instrument Maneuver tasks in the following flight lessons in Stage I of this course:

- #3
- #5

Whenever the student's performance in any flight lesson indicates that remedial instruction is needed, the AATD may be used for that remedial instruction, however, the lesson must still be satisfactorily completed in the airplane.

STAGE I

Stage Objective

During this stage, the student will learn the analysis and performance of all the maneuvers required for private and commercial pilot certification from the right seat of the training airplane. Appropriate maneuvers and procedures will be practiced using visual and instrument references, as indicated in the lesson content. Throughout the course, the student will emphasize safety of flight.

Stage Completion Standards

The student must successfully complete each of the lessons in Stage I and demonstrate the use of proper CRM procedures, including the positive exchange of flight controls and effective ADM skills. Additionally, the student will be able to analyze and perform all maneuvers from the right seat of the airplane in accordance with the criteria set forth in the current FAA private pilot, commercial pilot, and flight instructor Airman Certification Standards (ACS), as appropriate

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#1
	DUAL	**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLT INSTRUCTION**	**STAGE CHECK**	**Total**
Recommended	**1.5**		**1.5**			**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**1.5**		**1.5**			**1.5**

LESSON OBJECTIVE: During this lesson, the student will learn the fundamentals of analyzing and performing the listed flight maneuvers and procedures and becomes familiar with the new visual perspectives used when flying from the right seat of the airplane.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		Takeoffs, Landings & Go-arounds	
Introduce		- Normal Takeoff and Climb	
Safety of Flight		- Normal Approach and Landing	
Technical Subject Areas		Fundamentals of Flight	
- Human Factors		Ground Reference Maneuvers	
- Performance and Limitations		- Rectangular Course	
- Pilot Qualifications		- S-Turns	
Preflight Preparation		- Turns Around a Point	
- Weather Information		Postflight Procedures	
- Airworthiness Requirements		***Postflight Discussion***	
Preflight Procedures			
- Preflight Assessment			
- Flight Deck Management			
- Positive Exchange of Flight Controls			
- Engine Starting			
- Taxiing, Airport Signs, and Lighting			
- Before Takeoff Check			
Airport Operations			
- Comms, Light Signals & Rwy Lighting Systems			
- Traffic Patterns			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to perform and analyze the proper procedures for conducting the airplane preflight assessment, basic airport operations and ground reference maneuvers (private pilot only). During airport operations, the student should maintain constant vigilance and awareness of all other traffic. In addition, the student should demonstrate the correct entry and execution techniques for the listed ground reference maneuvers.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#2
	DUAL	**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLT INSTRUCTION**	**STAGE CHECK**	**Total**
Recommended	**1.5**		**1.5**			**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**3.0**		**3.0**			**3.0**

LESSON OBJECTIVE: During this lesson, the student will demonstrate the accurate analysis and performance of those maneuvers and procedures listed for review. In addition, the student begins to learn the analysis and performance of steep turns, stalls, slow flight, and slips to a landing.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Airport Operations	
Technical Subject Areas		Takeoffs, Landings, and Go-Arounds	
- Visual Scanning and Collision Avoidance		- Normal Takeoff and Climb	
- Principles of Flight		- Normal Approach and Landing	
- Airplane Flight Controls & Operation of Systems		Ground Reference Maneuvers	
- Runway Incursion Avoidance		Fundamentals of Flight	
- Federal Aviation Regulations and Publications		- Straight-and-Level Flight	
Slow Flight, Stalls and Spins		- Level Turns	
- Maneuvering during Slow Flight		- Straight Climbs and Climbing Turns	
- Demo Flt Char at Various Configs & Airspeeds		- Straight Descents and Descending Turns	
- Power-On Stalls		***Postflight Discussion***	
- Power-Off Stalls			
- Accelerated Stalls			
Performance Maneuvers			
- Steep Turns			
Takeoffs, Landings, and Go-Arounds			
- Slip to a Landing			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to analyze and perform the listed proficiency stalls with a minimum loss of altitude. Maneuvering during slow flight should meet commercial standards. In addition, the student should correctly and accurately analyze and perform crosswind takeoffs and landings while maintaining airspeed + 5 knots of the recommended climb or approach airspeed.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#3
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**		**1.5**			**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**4.5**		**4.5**			**4.5**

LESSON OBJECTIVE: During this lesson, the student will demonstrate the accurate analysis and performance of those maneuvers and procedures listed for review. In addition, the student will learn the analysis and performance of basic instrument maneuvers and emergency operations.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Airport Operations	
Basic Instrument Maneuvers		Takeoffs, Landings, and Go-Arounds	
- Straight-and-Level Flight		- Normal Takeoff and Climb	
- Constant Airspeed Climbs		- Normal Approach and Landing	
- Constant Airspeed Descents		- Slip to a Landing	
- Turns to Headings		***Postflight Discussion***	
- Recovery from Unusual Flight Attitudes			
Emergency Operations			
- Emergency Approach and Landing (Simulated)			
- Systems and Equipment Malfunctions			
- Emergency Equipment and Survival Gear			
- Emergency Descent			

COMPLETION STANDARDS: At the completion of this lesson, the student will be able to demonstrate the correct entry and execution techniques for the listed maneuvers including basic instrument maneuvers and emergency operations.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#4
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**		**1.5**			**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**6.0**		**6.0**			**6.0**

LESSON OBJECTIVE: During this lesson, the student will demonstrate the accurate analysis and performance of those maneuvers and procedures listed for review. In addition, the student will learn the analysis and performance of short-field takeoffs, soft-field takeoffs, short-field landings and soft-field landings.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Preflight Procedures	
Takeoffs, Landings, and Go-Arounds		Airport Operations	
- Short-Field Takeoff and Max. Perf. Climb		Takeoffs, Landings, and Go-Arounds	
- Soft-Field Takeoff and Climb		- Normal Takeoff and Climb	
- Go-Around/Rejected Landing		- Normal Approach and Landing	
- Short-Field Approach and Landing		- Slip to a Landing	
- Soft-Field Approach and Landing		Postflight Procedures	
		Postflight Discussion	

COMPLETION STANDARDS:

The student will be able to analyze and perform the elements involved in the performance of each listed takeoff, landing, and go-around.

REMARKS: _____

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_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#5
	DUAL	**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLT INSTRUCTION**	**STAGE CHECK**	**Total**
Recommended	**2.0**		**2.0**			**2.0**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**8.0**		**8.0**			**8.0**

LESSON OBJECTIVE: During this lesson, the student will demonstrate the analysis and performance of the maneuvers listed for review. This lesson includes the completion of a short cross-country flight. In addition, the student will apply correct emergency procedures. The student will demonstrate how situational awareness is maintained during cross-country flight by effectively using resources, proper communication skills, and workload management principles.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Airport Operations	
Technical Subject Areas		Basic Instrument Maneuvers	
- National Airspace System		Emergency Operations	
- Navigation Systems and Radar Services		- Emergency Approach and Landing (Simulated)	
- Navigation and Cross Country Flight Planning		- Systems and Equipment Malfunctions	
- Use of Electronic Flight Bag (if used)		Takeoffs, Landings, and Go-Arounds	
Navigation		- Short-field Takeoff and Max. Performance Climb	
- Pilotage and Dead Reckoning		- Short-field Approach and Landing	
- Diversion		- Soft-field Takeoff and Climb	
- Lost Procedures		- Soft-field Approach and Landing	
		- Slip to a Landing	
		Postflight Procedures	
		Postflight Discussion	
		VFR cross-county, >50NM (please enter below):	
		Route:	
		Landings at:	

COMPLETION STANDARDS:

This lesson is complete when the student conducts the short cross-country flight and demonstrates the ability to analyze and execute the elements involved in the performance of each of the tasks. The student should demonstrate all takeoffs and landings at a level of performance that meets or exceeds the practical test standards for a commercial pilot. All emergency procedures will be conducted in accordance with appropriate checklists and safe operating procedures.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#6
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**		**1.5**			**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**9.5**		**9.5**			**9.5**

LESSON OBJECTIVE: During this lesson, the student will demonstrate the analysis and performance of the maneuvers listed for review. In addition, the student will perform the listed demonstration stalls and the power-off 180° accuracy approach and landing.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Slow Flight, Stalls, and Spins	
Slow Flight, Stalls, and Spins		- Power-On Stalls	
- Crossed-Control Stall (Demonstration)		- Power-Off Stalls	
- Elevator Trim Stall (Demonstration)		Takeoffs, Landings, and Go-Arounds	
- Secondary Stall (Demonstration)		- Go-Around/Rejected Landing	
Takeoffs, Landings, and Go-Arounds		***Postflight Discussion***	
- Power-off 180° Accuracy Approach and Landing			

COMPLETION STANDARDS: At the completion of this lesson, the student will be able to safely demonstrate each of the demonstration stalls. The student will demonstrate proper judgment and decision-making while conducting the accuracy landing. During each of the review maneuvers the student will be able to analyze and perform the elements of each maneuver.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT TIME RECORD				FLIGHT LESSON #7		
	DUAL	**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLT INSTRUCTION**	**STAGE CHECK**	**Total**
Recommended	**1.5**		**1.5**			**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**11.0**		**11.0**			**11.0**

LESSON OBJECTIVE: During this lesson, the student will demonstrate the accurate analysis and performance of those maneuvers and procedures listed for introduction and review including the performance maneuvers.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Performance Maneuvers	
Performance Maneuvers		- Steep Turns	
- Chandelles		Takeoffs, Landings, and Go-Arounds	
- Lazy Eights		- Short-field Takeoff and Max. Performance Climb	
- Steep Spirals		- Power-Off 180° Accuracy Approach & Landing	
Ground Reference Maneuvers		***Postflight Discussion***	
- Eights on Pylons			

COMPLETION STANDARDS: At the completion of this lesson, the student will be able to safely demonstrate each of the performance maneuvers. The student will demonstrate proper judgment and decision-making while conducting the short-field takeoff and accuracy landing. During each of the maneuvers, the student will be able to analyze and perform the elements of each maneuver.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT TIME RECORD				FLIGHT LESSON #8		
	DUAL	**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLT INSTRUCTION**	**STAGE CHECK**	**Total**
Recommended	**1.0**		**1.0**			**1.0**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**12.0**		**12.0**			**12.0**

LESSON OBJECTIVE: During this **night** lesson, the student will learn the fundamentals of the analysis and performance of the elements associated with night flight operations. Additional topics to be discussed include high altitude operations. This flight lesson should be conducted at night.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		Takeoffs, Landings, and Go-Arounds	
Introduce		- Normal Takeoff and Climb	
Technical Subject Areas		- Short-field Takeoff and Max. Performance Climb	
- Night Operations		- Soft-field Takeoff and Climb	
- 14 CFR and Publications		- Normal Approach and Landing	
- High Altitude Operations – Supplemental O_2		- Go-Around/Rejected landing	
- High Altitude Operations – Pressurization		- Short-field Approach and Landing	
		- Soft-field Approach and Landing	
		Emergency Operations	
Review		- Emergency Approach and Landing (Simulated)	
Safety of Flight		- Systems and Equipment Malfunctions	
Preflight Procedures		***Postflight Discussion***	
- Preflight Assessment			
- Taxiing			
Airport Operations			
- Traffic Patterns			
- Comms, Light Signals & Rwy Lighting Systems			

COMPLETION STANDARDS: At the completion of this lesson, the student will be able to analyze and perform the elements associated with night flight operations. The proficiency level demonstrated on all tasks shall meet or exceed the standards of a commercial pilot. The student will continue to demonstrate sound judgment during all operations.

This flight lesson should be conducted at night.

REMARKS: _____

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_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#9
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**		**1.5**		**1.5**	**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**13.5**		**13.5**		**1.5**	**13.5**

LESSON OBJECTIVE: STAGE CHECK

This lesson is a stage check to be conducted by the Chief Flight Instructor, Assistant Chief Flight Instructor, or a designated Check Instructor. The student's ability to correctly analyze and safely perform the listed procedures will be assessed. In addition, the student's ability to use sound judgment and resource and workload management in all operations will be assessed.

COMPLETION STANDARDS:

At the completion of this stage check, the student shall be able to perform each of the listed tasks at a proficiency level which meets or exceeds the criteria outlined in the current FAA Flight Instructor, Commercial Pilot, or Private Pilot Airman Certification Standards, as appropriate. The student will be able to correctly analyze the elements associated with the performance of each maneuver and procedure. The student shall exhibit sound decision-making and judgment skills at all times.

SEE NEXT PAGE FOR LESSON CONTENT AND REMARKS.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		VIII. Fundamentals of Flight (Select at least 1 task)	
Airman Certification Standards Concept		A. Straight-and-Level Flight	
Practical Test Roles, Responsibilities. and Outcomes		B. Level Turns	
Safety of Flight		C. Straight Climbs and Climbing Turns	
Review		D. Straight Descents and Descending Turns	
II. Tech. Subject Areas(Select Task C,K &one other)		IX. Performance and Ground Reference Maneuvers	
A. Human Factors		(Select at Least 4, incl. A or B, C or D, & E and F)	
B. Visual Scanning and Collision Avoidance		A. Steep Turns	
C. Runway Incursion Avoidance		B. Steep Spiral	
D. Principles of Flight		C. Chandelles	
E. Aircraft Flight Controls &Operation of Systems		D. Lazy Eights	
F. Performance and Limitations		E. Ground Reference Maneuvers	
G. National Airspace System		F. Eights on Pylons	
H. Navigation Systems and Radar Services		X. Slow Flight, Stalls, and Spins	
I. Navigation & XC Flight Planning		(Select A or B; C, D or E; F, G, or H; and Task I)	
J. 14 CFR and Publications		A. Maneuvering During Slow Flight	
K. Endorsements and Logbook Entries		B. Demo Flt Char at Various Configs &Airspeeds	
M. Night Operations		C. Power-Off Stalls	
N. High Altitude Operations-Supplemental O_2		D. Power-On Stalls	
O. High Altitude Operations - Pressurization		E. Accelerated Stalls	
III. Preflight Preparation (Select at least 1 Task)		F. Cross-Controlled Stall Demonstration	
A. Pilot Qualifications		G. Elevator Trim Stall Demonstration	
B. Airworthiness Requirements		H. Secondary Stall Demonstration	
C. Weather Information		I. Spin Awareness & Spins	
V. Preflight Procedures (Select at least 1 Task)		XI. Basic Instrument Maneuvers (Select at least 1)	
A. Preflight Assessment		A. Straight-and-Level Flight	
B. Flight Deck Management		B. Constant Airspeed Climbs	
C. Engine Starting		C. Constant Airspeed Descents	
D. Taxiing, Airport Signes, and Lighting		D. Turns to Headings	
F. Before Takeoff Check		E. Recovery from Unusual Attitudes	
VI. Airport Operations (Select at least 1 Task)		XII. Emergency Operations (Select at Least B & C)	
A. Comms, Light Signals, & Rwy Lighting Sys.		A. Emergency Descent	
B. Traffic Patterns		B. Emergency Approach and Landing (Simulated)	
VII. Takeoffs, Landings, and Go-Arounds (Select at		C. Systems and Equipment Malfunctions	
Least 2 takeoff and 2 landing Tasks)		D. Emergency Equipment and Survival Gear	
A. Normal Takeoff and Climb		XIV. Postflight Procedures (Must Select A)	
B. Normal Approach and Landing		A. After Landing, Parking, and Securing	
C. Soft-Field Takeoff and Climb		***Postflight Discussion***	
D. Soft-Field Approach and Landing			
E. Short-Field Takeoff and Max. Perf. Climb			
F. Short-Field Approach and Landing			
M. Slip to a Landing			
N. Go-Around/Rejected Landing			
O. Power-Off 180° Accuracy Approach & Landing			

REMARKS: _____

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_____

_____ _____ / _____

Student Signature Instructor Signature Print Name

STAGE II

Stage Objective

During this stage, the student will acquire instructional knowledge of the elements of each of the listed maneuvers and procedures including recognition, analysis, and correction of common student errors. Initially, the student practices spin recognition and recovery. Then the student prepares a lesson plan for each lesson in stage two and conducts the flight lessons according to the lesson plan, including effective preflight and postflight instruction.

Stage Completion Standards

The student must successfully complete each of the lessons in Stage 2. At the completion of this stage, the student will have the proficiency and instructional knowledge of a competent flight instructor with an airplane category rating and single engine class rating, and can apply that knowledge, manage associated risks, demonstrate appropriate skills, and provide effective instruction. The student's proficiency level must meet or exceed the criteria of the current FAA Commercial Pilot (ASEL) and Flight Instructor (ASE) Airman Certification Standards and must exceed the current FAA Private Pilot (ASEL) Airman Certification Standards, as appropriate, for each Area of Operation, Task, procedure, maneuver or subject.

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#10
	DUAL	**SPIN**	**MANEUVER ANALYSIS**	**PRACTICE FLT INSTRUCTION**	**STAGE CHECK**	**Total**
Recommended	**1.0**	**1.0**	**0.5**	**0.5**		**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**14.5**	**1.0**	**14.0**	**0.5**	**1.5**	**14.5**

LESSON OBJECTIVE: This lesson **is to be conducted by the Chief Flight Instructor, Assistant Chief Flight Instructor,** or a designated Check Instructor specifically authorized to conduct spin training**.** During this lesson, the student will prepare and present a lesson plan on spins and spin recovery. The student will practice both left and right spin entries and recoveries. In addition, the student will be introduced to several Fundamentals of Instructing subjects.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		***Review***	
Introduce		Safety of Flight	
Fundamentals of Instructing		Slow Flight, Stalls, and Spins	
A. Effects of Human Behavior & Com. on the		- Maneuvering During Slow Flight	
Learning Process		- Demo Flt Char at Various Configs & Airspeeds	
B. Learning Process		- Power-On Stalls	
C. Course Dev., Lesson Plans, and Classroom…		- Power-Off Stalls	
Slow Flight, Stalls, and Spins		***Postflight Discussion***	
- Spin Awareness and Spins			
- Spins in Both Directions			

COMPLETION STANDARDS: This lesson is complete when the student demonstrates spin entries, spins, and spin recoveries in both directions. The student shall be competent and possess instructional knowledge in stall awareness, spin entry, spins, and spin recovery procedures.
Note: Upon satisfactory completion of this lesson, the instructor shall make the appropriate spin endorsement entry according to 14 CFR 61.183(i)(1) in the student's logbook.

REMARKS: _____

_____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#11
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**			**1.5**		**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**16.0**	**1.0**	**14.0**	**2.0**	**1.5**	**16.0**

LESSON OBJECTIVE: During this lesson, the student will practice instructing the maneuvers listed. Additional fundamentals of instructing subjects will be presented.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		Airport Operations	
Introduce		- Comms, Light Signals, & Rwy Lighting Systems	
Fundamentals of Instructing		- Traffic Patterns	
- Student Evaluation, Assessment and Testing		- Arprt, Rwy, and Txwy Signs, Mrkngs & Lighting	
- Elements of Effective Teaching in a Prof Envir.		Takeoffs, Landings, and Go-arounds	
- Elements of Effective Teaching – Risk Mgmt.		- Normal Takeoff and Climb	
- Flt Instructor Characteristics and Responsibilities		- Go-Around/Rejected Landing	
Technical Subject Areas		- Normal and Crosswind Approach and Landing	
- Endorsements and Logbook Entries		Fundamentals of Flight	
Review		- Straight-and-Level Flight	
Fundamentals of Instructing		- Level Turns	
- Course Dev., Lesson Plans, and Classroom…		- Straight Climbs and Climbing Turns	
Preflight Preparation		- Straight Descents and Descending Turns	
- Pilot Qualifications		Basic Instrument Maneuvers	
- Weather Information		- Straight-and-Level Flight	
- Airworthiness Requirements		- Constant Airspeed Climbs	
Preflight Procedures		- Constant Airspeed Descents	
- Preflight Assessment		- Turns to Headings	
- Flight Deck Management		- Recovery from Unusual Flight Attitudes	
- Engine Starting		Postflight Procedures	
- Taxiing, Airport Signs, and Lighting		***Postflight Discussion***	
- Before Takeoff Check			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to analyze and perform the listed tasks at a level that meets or exceeds the criteria outlined in the current FAA Flight Instructor Airplane Airman Certification Standards. In addition, the student should demonstrate instructional knowledge of the elements of each maneuver or task, including recognition, analysis, and correction of common student errors.

REMARKS: _____

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_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#12
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**			**1.5**		**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**17.5**	**1.0**	**14.0**	**3.5**	**1.5**	**17.5**

LESSON OBJECTIVE: During this lesson, the student will practice instructing stalls, maneuvering during slow flight, and emergency operations.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		- Emergency Descent	
Review		Postflight Procedures	
Takeoffs, Landings, and Go-Arounds		***Postflight Discussion***	
- Normal Takeoff and Climb			
- Normal Approach and Landing			
Airport Operations			
Slow Flight, Stalls and Spins			
- Maneuvering during Slow Flight			
- Power-Off Stalls			
- Power-On Stalls			
- Accelerated Stalls			
- Crossed-Control Stall Demonstration			
- Elevator Trim Stall Demonstration			
- Secondary Stall Demonstration			
Emergency Operations			
- Emergency Approach and Landing (Simulated)			
- Systems and Equipment Malfunctions			
- Emergency Equipment and Survival Gear			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to analyze and perform the listed tasks at a level that meets or exceeds the criteria outlined in the current FAA Flight Instructor Airplane Airman Certification Standards. In addition, the student should demonstrate instructional knowledge of the elements of each maneuver or task, including recognition, analysis, and correction of common student errors.

REMARKS: _____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#13
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.0**			**1.0**		**1.0**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**18.5**	**1.0**	**14.0**	**4.5**	**1.5**	**18.5**

LESSON OBJECTIVE: During this lesson, the student will practice instructing takeoffs, landings, and go-arounds.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion			
Review			
Airport Operations			
- Comms, Light Signals, & Rwy Lighting Systems			
- Traffic Patterns			
Takeoffs, Landings, and Go-Arounds			
- Short-Field Takeoff and Max. Perf. Climb			
- Soft-Field Takeoff and Climb			
- Go-Around/Rejected Landing			
- Short-Field Approach and Landing			
- Soft-Field Approach and Landing			
Emergency Operations			
- Emergency Approach and Landing (Simulated)			
- Systems and Equipment Malfunctions			
Postflight Procedures			
Postflight Discussion			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to analyze and perform the listed tasks at a level that meets or exceeds the criteria outlined in the current FAA Flight Instructor Airplane Airman Certification Standards. In addition, the student should demonstrate instructional knowledge of the elements of each maneuver or task, including recognition, analysis, and correction of common student errors.

REMARKS: _____

_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#14
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**			**1.5**		**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**20.0**	**1.0**	**14.0**	**6.0**	**1.5**	**20.0**

LESSON OBJECTIVE: During this lesson, the student will practice instructing performance and ground reference maneuvers.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion			
Review			
Takeoffs, Landings, and Go-Arounds			
- Short-field Takeoff and Max. Performance Climb			
- Short-field Approach and Landing			
- Slip to a Landing			
Performance Maneuvers			
- Steep Turns			
- Chandelles			
- Lazy Eights			
- Steep Spirals			
Ground Reference Maneuvers			
- Rectangular Course			
- S-Turns			
- Turns Around a Point			
- Eights on Pylons			
Postflight Procedures			
Postflight Discussion			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to analyze and perform the listed tasks at a level that meets or exceeds the criteria outlined in the current FAA Flight Instructor Airplane Airman Certification Standards. In addition, the student should demonstrate instructional knowledge of the elements of each maneuver or task, including recognition, analysis, and correction of common student errors.

REMARKS: _____

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_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#15
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.5**			**1.5**		**1.5**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**21.5**	**1.0**	**14.0**	**7.5**	**1.5**	**21.5**

LESSON OBJECTIVE: During this lesson, the student will practice instructing the listed maneuvers with the focus being on the performance maneuvers and ground reference maneuvers required by the Commercial Pilot ASEL ACS.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion			
Review			
Takeoffs, Landings, and Go-Arounds			
- Soft-field Takeoff and Climb			
- Power-off 180° Accuracy Approach and Landing			
Performance Maneuvers			
- Steep Turns			
- Chandelles			
- Lazy Eights			
- Steep Spirals			
Ground Reference Maneuvers			
- Eights on Pylons			
Postflight Discussion			

COMPLETION STANDARDS: At the completion of this lesson, the student should be able to analyze and perform the listed tasks at a level that meets or exceeds the criteria outlined in the current FAA Flight Instructor Airplane Airman Certification Standards. In addition, the student should demonstrate instructional knowledge of the elements of each maneuver or task, including recognition, analysis, and correction of common student errors.

REMARKS: _____

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_____ _____ / _____
Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N** _____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#16
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.7**			**1.7**		**1.7**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**23.2**	**1.0**	**14.0**	**9.2**	**1.5**	**23.2**

LESSON OBJECTIVE: During this lesson, the instructor will determine whether the student meets the knowledge and proficiency requirements for a Flight Instructor Certificate with an Airplane category and Single-Engine class rating.

COMPLETION STANDARDS:

At the completion of this lesson, the student shall be able to perform each of the listed tasks at a proficiency level which meets or exceeds the criteria outlined in the current FAA Flight Instructor, Commercial Pilot, or Private Pilot Airman Certification Standards, as appropriate. The student will be able to apply their knowledge, manage associated risks, demonstrate appropriate skills, and provide effective instruction for each maneuver and procedure. The student shall exhibit sound decision-making and judgment skills at all times.

SEE NEXT PAGE FOR LESSON CONTENT AND REMARKS.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		C. Soft-Field Takeoff and Climb	
Airman Certification Standards Concept		D. Soft-Field Approach and Landing	
Practical Test Roles, Responsibilities. and Outcomes		E. Short-Field Takeoff and Max. Perf. Climb	
Safety of Flight		F. Short-Field Approach and Landing	
Review		M. Slip to a Landing	
I. Fund. of Instructing (Select Task E,F,& one other)		N. Go-Around/Rejected Landing	
A. Effects of Human Behavior & Comm. on the		O. Power-Off 180° Accuracy Approach & Landing	
Learning Process		VIII. Fundamentals of Flight (Select at least 1 task)	
B. Learning Process		A. Straight-and-Level Flight	
C. Course Dev,, Lesson Plans, and Classroom…		B. Level Turns	
D. Student Evaluation, Assessment & Testing		C. Straight Climbs and Climbing Turns	
E. Elements of Effective Teaching in a Prof Env.		D. Straight Descents and Descending Turns	
F. Elements of Effective Teaching – Risk Mgmt.		IX. Performance and Ground Reference Maneuvers	
II. Tech. Subject Areas(Select Task C,K &one other)		(Select at Least 4, incl. A or B, C or D, & E and F)	
A. Human Factors		A. Steep Turns	
B. Visual Scanning and Collision Avoidance		B. Steep Spiral	
C. Runway Incursion Avoidance		C. Chandelles	
D. Principles of Flight		D. Lazy Eights	
E. Aircraft Flight Controls &Operation of Systems		E. Ground Reference Maneuvers	
F. Performance and Limitations		F. Eights on Pylons	
G. National Airspace System		X. Slow Flight, Stalls, and Spins	
H. Navigation Systems and Radar Services		(Select A or B; C, D or E; F, G, or H; and Task I)	
I. Navigation & XC Flight Planning		A. Maneuvering During Slow Flight	
J. 14 CFR and Publications		B. Demo Flt Char at Various Configs &Airspeeds	
K. Endorsements and Logbook Entries		C. Power-Off Stalls	
M. Night Operations		D. Power-On Stalls	
N. High Altitude Operations-Supplemental O_2		E. Accelerated Stalls	
O. High Altitude Operations - Pressurization		F. Cross-Controlled Stall Demonstration	
III. Preflight Preparation (Select at least 1 Task)		G. Elevator Trim Stall Demonstration	
A. Pilot Qualifications		H. Secondary Stall Demonstration	
B. Airworthiness Requirements		I. Spin Awareness & Spins (check logbook entry)	
C. Weather Information		XI. Basic Instrument Maneuvers (Select at least 1)	
IV. Preflight Lesson on a Maneuver to be Flown		A. Straight-and-Level Flight	
V. Preflight Procedures (Select at least 1 Task)		B. Constant Airspeed Climbs	
A. Preflight Assessment		C. Constant Airspeed Descents	
B. Flight Deck Management		D. Turns to Headings	
C. Engine Starting		E. Recovery from Unusual Attitudes	
D. Taxiing, Airport Signs, and Lighting		XII. Emergency Operations (Select at Least B & C)	
F. Before Takeoff Check		A. Emergency Descent	
VI. Airport Operations (Select at least 1 Task)		B. Emergency Approach and Landing (Simulated)	
A. Comms, Light Signals, & Rwy. Lighting Sys.		C. Systems and Equipment Malfunctions	
B. Traffic Patterns		D. Emergency Equipment and Survival Gear	
VII. Takeoffs, Landings, and Go-Arounds (Select at		XIV. Postflight Procedures (Must Select A)	
Least 2 takeoff and 2 landing Tasks)		A. After Landing, Parking, and Securing	
A. Normal Takeoff and Climb		***Postflight Discussion***	
B. Normal Approach and Landing			

REMARKS: _____

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_____ _____ / _____

Student Signature Instructor Signature Print Name

NAME: _____ / _____ **Date:** ___ / ___ / ___ **GRADE:** ____
(First) (Last) (U, S, or I)

AIRCRAFT (Circle one) C-152 C-172 PA28-161 AATD Time _____ **N**_____

FLIGHT	TIME	RECORD		FLIGHT	LESSON	#17
	DUAL	SPIN	MANEUVER ANALYSIS	PRACTICE FLT INSTRUCTION	STAGE CHECK	Total
Recommended	**1.8**			**1.8**	**1.8**	**1.8**
Actual						
Previous. Lesson						
New Total						
Recommended Total	**25.0**	**1.0**	**14.0**	**11.0**	**3.3**	**25.0**

LESSON OBJECTIVE: STAGE CHECK

This **Stage Check** and End-of-Course Exam is to be conducted by the Chief Flight Instructor, Assistant Chief Flight Instructor, or an appropriately designated Check Instructor. During this lesson, the student's ability to meet the proficiency requirements for a Flight Instructor Certificate with an Airplane, Single-Engine Category and Class rating will be determined.

COMPLETION STANDARDS:

At the completion of this Stage Check, the student shall be able to perform each of the listed Areas of Operation and Tasks at a proficiency level which meets or exceeds the criteria outlined in the current FAA Flight Instructor, Commercial Pilot, or Private Pilot Airman Certification Standards, as appropriate. The student will be able to apply their knowledge, manage associated risks, demonstrate appropriate skills, and provide effective instruction for each maneuver and procedure. The student shall exhibit sound decision-making and judgment skills at all times.

SEE NEXT PAGE FOR LESSON CONTENT AND REMARKS.

LESSON CONTENT			
Subject	**Grade**	**Subject**	**Grade**
Preflight Discussion		C. Soft-Field Takeoff and Climb	
Airman Certification Standards Concept		D. Soft-Field Approach and Landing	
Practical Test Roles, Responsibilities. and Outcomes		E. Short-Field Takeoff and Max. Perf. Climb	
Safety of Flight		F. Short-Field Approach and Landing	
Review		M. Slip to a Landing	
I. Fund. of Instructing (Select Task E,F,& one other)		N. Go-Around/Rejected Landing	
A. Effects of Human Behavior & Comm. on the		O. Power-Off 180°Accuracy Approach & Landing	
Learning Process		VIII. Fundamentals of Flight (Select at least 1 task)	
B. Learning Process		A. Straight-and-Level Flight	
C. Course Dev,, Lesson Plans, and Classroom…		B. Level Turns	
D. Student Evaluation, Assessment & Testing		C. Straight Climbs and Climbing Turns	
E. Elements of Effective Teaching in a Prof Env.		D. Straight Descents and Descending Turns	
F. Elements of Effective Teaching – Risk Mgmt.		IX. Performance and Ground Reference Maneuvers	
II. Tech. Subject Areas(Select Task C,K &one other)		(Select at Least 4, incl. A or B, C or D, & E and F)	
A. Human Factors		A. Steep Turns	
B. Visual Scanning and Collision Avoidance		B. Steep Spiral	
C. Runway Incursion Avoidance		C. Chandelles	
D. Principles of Flight		D. Lazy Eights	
E. Aircraft Flight Controls &Operation of Systems		E. Ground Reference Maneuvers	
F. Performance and Limitations		F. Eights on Pylons	
G. National Airspace System		X. Slow Flight, Stalls, and Spins	
H. Navigation Systems and Radar Services		(Select A or B; C, D or E; F, G, or H; and Task I)	
I. Navigation & XC Flight Planning		A. Maneuvering During Slow Flight	
J. 14 CFR and Publications		B. Demo Flt Char at Various Configs &Airspeeds	
K. Endorsements and Logbook Entries		C. Power-Off Stalls	
M. Night Operations		D. Power-On Stalls	
N. High Altitude Operations-Supplemental O_2		E. Accelerated Stalls	
O. High Altitude Operations - Pressurization		F. Cross-Controlled Stall Demonstration	
III. Preflight Preparation (Select at least 1 Task)		G. Elevator Trim Stall Demonstration	
A. Pilot Qualifications		H. Secondary Stall Demonstration	
B. Airworthiness Requirements		I. Spin Awareness & Spins (check logbook entry)	
C. Weather Information		XI. Basic Instrument Maneuvers (Select at least 1)	
IV. Preflight Lesson on a Maneuver to be Flown		A. Straight-and-Level Flight	
V. Preflight Procedures (Select at least 1 Task)		B. Constant Airspeed Climbs	
A. Preflight Assessment		C. Constant Airspeed Descents	
B. Flight Deck Management		D. Turns to Headings	
C. Engine Starting		E. Recovery from Unusual Attitudes	
D. Taxiing, Airport Signs, and Lighting		XII. Emergency Operations (Select at Least B & C)	
F. Before Takeoff Check		A. Emergency Descent	
VI. Airport Operations (Select at least 1 Task)		B. Emergency Approach and Landing (Simulated)	
A. Comms, Light Signals, & Rwy. Lighting Sys.		C. Systems and Equipment Malfunctions	
B. Traffic Patterns		D. Emergency Equipment and Survival Gear	
VII. Takeoffs, Landings, and Go-Arounds (Select at		XIV. Postflight Procedures (Must Select A)	
Least 2 takeoff and 2 landing Tasks)		A. After Landing, Parking, and Securing	
A. Normal Takeoff and Climb		***Postflight Discussion***	
B. Normal Approach and Landing			

REMARKS: _____

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Student Signature Instructor Signature Print Name