

# Stage 1 - Private Pilot Ground Lesson 1

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

Note: Students should read Chapter 1, Sections A, B, and C, prior to Ground Lesson 1.

### Lesson Objective:

- Become familiar with pilot training, aviation opportunities, and human factors in aviation.
- Understand the essential components of the school's pilot training program.

### Academic Content:

#### Section A - Pilot Training

- How to Get Started
- Role of the FAA
- Fixed-Base Operators (FBOs)
- Eligibility Requirements
- Types of Training Available
- Phases of Training
- Private Pilot Privileges and Limitations

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section B - Aviation Opportunities

- New Experiences
- Aviation Organizations
- Category/Class Ratings
- Additional Pilot Certificates
- Aviation Careers

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section C - Introduction to Human Factors

- SINGLE-PILOT RESOURCE MANAGEMENT
- Aeronautical Decision Making
- Risk Management
- Task Management
- Situational Awareness
- CFIT Awareness
- Automation Management
- Aviation Physiology
- Alcohol, Drugs, and Performance
- Fitness for Flight

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Completion Standards:

- Demonstrate understanding of pilot training programs, opportunities in aviation, and human factors during oral quizzing by the instructor.
- Demonstrate understanding of policies and procedures that apply to the school's pilot training program.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Plot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage 1 - Private Pilot

## Ground Lesson 2

Chapter 2, Airplane Systems

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

### Lesson Objective:

- Gain a basic understanding of the main airplane components and systems.
- Learn about the power plant and related systems.
- Become familiar with flight instrument functions and operating characteristics, including errors and common malfunctions.

### Academic Content:

#### Section A - Airplanes

- Fuselage
- Wings
- Empennage
- Landing Gear
- Engine/Propeller
- Pilot's Operating Handbook (POH)

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section B - The Powerplant and Related Systems

- Reciprocating Engine
- Induction Systems
- Supercharging and Turbocharging
- Ignition Systems
- Fuel Systems
- Refueling
- Oil Systems
- Cooling Systems
- Exhaust Systems
- Propellers
- Propeller Hazards
- Electrical Systems

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section C - Flight Instruments

- Pitot Static Instruments
- Airspeed Indicator
- Altimeter
- Vertical Speed Indicator
- Gyroscopic Instruments
- Magnetic Compass

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Completion Standards:

- Demonstrate understanding of airplane components and systems, powerplant, and related systems, and flight instruments during oral quizzing by the instructor.
- Completes with a minimum score of 80%: questions for Chapter 2 Sections A,B, and C. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 3.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage 1 - Private Pilot

## Ground Lesson 3

Chapter 3, Aerodynamic Principles

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

### Lesson Objective:

- Become familiar with aerodynamic principles, including the four forces of flight, stability, maneuvering flight, and load factor.
- Understand stall and spin characteristics as they relate to training airplanes.
- Learn the importance of prompt recognition of stalls.

### Academic Content:

#### Section A - Four Forces of Flight

- Lift
- Airfoils
- Pilot Control of Lift
- Weight
- Thrust
- Drag
- Ground Effect

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section B - Stability

- Three Axes of Flight
- Longitudinal Stability
- Center of Gravity Position
- Lateral Stability
- Directional Stability
- Stalls
- Spins

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section C - Aerodynamics of Maneuvering Flight

- Climbing Flight
- Left-Turning Tendencies
- Descending Flight
- Turning Flight
- Load Factor

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Completion Standards:

- Demonstrate understanding of stalls, spins, and basic aerodynamic principles during oral quizzing by the instructor.
- Complete with a minimum score of 80%: questions for Chapter 3 Sections A, B, and C. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 4

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage 1 - Private Pilot

## Ground Lesson 4

Chapter 4, The Flight Environment

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

### Lesson Objective:

- Understand important safety considerations, including collision avoidance precautions, right-of-way rules, and minimum safe altitudes.
- Become familiar with airport marking and lighting, aeronautical charts, and types of airspace.
- Learn about collision avoidance procedures and runway incursion avoidance.

### Academic Content:

#### Section A - Pilot Training

- |  |   |
|--|---|
| <input type="checkbox"/> Collision Avoidance/Visual Scanning | <input type="checkbox"/> Minimum Safe Altitudes               |
| <input type="checkbox"/> Airport Operations                  | <input type="checkbox"/> Taxiing in Wind                      |
| <input type="checkbox"/> Right-of-Way Rules                  | <input type="checkbox"/> Positive Exchange of Flight Controls |

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section B - Airports

- |  |   |
|--|---|
| <input type="checkbox"/> Controlled and Uncontrolled | <input type="checkbox"/> Runway Incursion Avoidance             |
| <input type="checkbox"/> Runway Layout               | <input type="checkbox"/> Land and Hold Short Operations (LAHSO) |
| <input type="checkbox"/> Traffic Pattern             | <input type="checkbox"/> Airport Lighting                       |
| <input type="checkbox"/> Airport Visual Aids         | <input type="checkbox"/> Visual Glideslope Indicators           |
| <input type="checkbox"/> Runway and Taxiway Markings | <input type="checkbox"/> Approach Light Systems                 |
| <input type="checkbox"/> Ramp Area Hand Signals      | <input type="checkbox"/> Pilot-Controlled Lighting              |

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section C - Aeronautical Charts

- |   |  |
|---|--|
| <input type="checkbox"/> Latitude and Longitude | <input type="checkbox"/> Terminal Area Chart       |
| <input type="checkbox"/> Projections            | <input type="checkbox"/> World Aeronautical Charts |
| <input type="checkbox"/> Sectional Charts       | <input type="checkbox"/> Chart Symbolology         |

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section C - Airspace

- |  |   |
|--|---|
| <input type="checkbox"/> Classifications       | <input type="checkbox"/> Special VFR                          |
| <input type="checkbox"/> Uncontrolled Airspace | <input type="checkbox"/> Special Use Airspace                 |
| <input type="checkbox"/> Controlled Airspace   | <input type="checkbox"/> Other Airspace Areas                 |
| <input type="checkbox"/> Class E               | <input type="checkbox"/> Emergency Air Traffic Rules          |
| <input type="checkbox"/> Class D               | <input type="checkbox"/> Air Defense Identification Zones     |
| <input type="checkbox"/> Class C               | <input type="checkbox"/> Security-Related Flight Restrictions |
| <input type="checkbox"/> Class B               | <input type="checkbox"/> Intercept Procedures                 |
| <input type="checkbox"/> Class A               |   |

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Completion Standards:

- Demonstrate understanding of airport marking and lighting, runway incursion avoidance, collision avoidance, right-of-way rules, minimum safe altitudes, aeronautical charts, and airspace during oral quizzing by the instructor.
- Complete with a minimum score of 80%: questions for Chapter 4 Sections a, b, C, and D. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 5

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage 1 - Private Pilot

## Ground Lesson 5

Chapter 5 Communication and Flight Information

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

### Lesson Objective:

- Become familiar with radar, transponder operations, and FAA radar equipment and services for VFR aircraft.
- Understand the types of services provided by Flight Service.
- Learn how to use the radio for communications.
- Gain a basic understanding of the sources of flight information, particularly the Aeronautical Information Manual and FAA advisory circulars.

### Academic Content:

#### Section A - Radar and ATC Services

- Radar
- Transponder Operations
- FAA Radar Systems
- VFR Radar Services
- Automatic Terminal Information Service (ATIS)
- Flight Service

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section B - Radio Procedures

- VHF Communication Equipment
- Using the Radio
- Phonetic Alphabet
- Coordinated Universal Time
- Common Traffic Advisory Frequency (CTAF)
- ATC Facilities at Controlled Airports
- Lost Communications Procedures
- Emergency Procedures
- Emergency Locator Transmitters (ELT's)

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

#### Section C - Sources of Flight Information

- Airport/Facility Directory
- Federal Aviation Regulations
- Aeronautical Information Manual (AIM)
- Notices to Airmen (NOTAMs)
- Advisory Circulars
- Jeppesen Information Services

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Completion Standards:

- Demonstrate understanding of radar and ATC services, radio procedures and sources of flight information during oral quizzing by the instructor.
- Complete with a minimum score of 80%: questions for Chapter 5 Sections A, B, and C. Review with the instructor each incorrect response to ensure complete understanding before taking the Stage I Exam in Ground Lesson 6.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage 1 - Private Pilot Ground Lesson 6

Private Pilot Textbook Chapters 1-5

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Demonstrate knowledge of the subjects covered in Ground Lessons 1-5.

## Academic Content:

### Stage I Exam

- Airplane Systems
- Aerodynamic Principles
- The Flight Environment
- Communication and Flight Information

Score \_\_\_\_\_

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- To complete the lesson and stage, pass the Stage I Exam with a minimum score of 80%. Review with the instructor each incorrect response to ensure complete understanding before progressing to Stage II.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage II - Private Pilot Ground Lesson 7

Chapter 6, Meteorology for Pilots

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Learn the causes of various weather conditions, frontal systems, and hazardous weather phenomena.
- Understand how to recognize critical weather situations from the ground and during flight, including hazards associated with thunderstorms.
- Become familiar with recognition and avoidance of wind shear and wake turbulence.

## Academic Content:

### Section A - Basic Weather Theory

- The Atmosphere
- Atmospheric Circulation
- Atmospheric Pressure
- Coriolis Force
- Global Wind Patterns
- Local Wind Patterns

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section B - Weather Patterns

- Atmospheric Stability
- Temperature Inversions
- Moisture
- Humidity
- Dew point
- Clouds and Fog
- Precipitation
- Air masses
- Fronts

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section C - Weather Hazards

- Thunderstorms
- Turbulence
- Wake Turbulence
- Wind Shear
- Microburst
- Icing
- Restrictions to Visibility
- Volcanic Ash

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Demonstrate understanding of basic weather theory, weather patterns, and weather hazards during oral quizzing by the instructor.
- Complete with a minimum passing score of 80%: questions for Chapter 6 Sections A, B, and C. Review incorrect responses with the instructor to ensure complete understanding before starting Ground Lesson 8.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage II - Private Pilot Ground Lesson 8

FAR/AIM - Private Pilot FAR's

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Understand the appropriate Federal Aviation Regulations in the FAR Private Pilot Airplane Recommended Study List.
- Gain specific knowledge of those FAR's which govern student solo flight operation, private pilot privileges and limitations, and National Transportation Safety Board (NTSB) accident reporting procedures.

## Academic Content:

### FAR's/NTSB

- FAR Part 1
- FAR Part 61
- FAR Part 91
- NTSB 830

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Demonstrate understanding of the relevant regulations in 14 CFR (FAR) Part 1, 61, 91, and 49 CFR (NTSB) 830 during oral quizzing by the instructor.
- Student completes Ground Lesson 8 Private Pilot FAR Exercises with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete understanding prior to progressing to Ground Lesson 9.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_



# Stage II - Private Pilot Ground Lesson 9

Chapter 7, Interpreting Weather Data

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Learn how to obtain and interpret weather reports, formats, and graphic charts.
- Become familiar with the sources of weather information during preflight planning and while in flight.
- Recognize critical weather situations described by weather reports and forecasts.

## Academic Content:

### Section A - The Forecasting Process

- Forecasting Methods
- Types of Forecasts
- Compiling and Processing Weather Data
- Forecasting Accuracy and Limitations

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section B - Printed Reports and Forecasts

- Aviation Routine Weather Report (METAR)
- Radar Weather Reports
- Pilot Weather Reports
- Terminal Aerodrome Forecast (TAF)
- Aviation Area Forecast
- Winds and Temperatures Aloft Forecast
- Severe Weather Reports and Forecasts
- AIRMET/SIGMET/Convective SIGMET

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section C - Graphic Weather Products

- Surface Analysis Chart
- Weather Depiction Chart
- Radar Summary Chart
- Satellite Weather Pictures
- Low-Level Significant Weather Prog
- Convective Outlook Chart
- Forecast Winds and Temperatures Aloft Chart
- Volcanic Ash Forecast and Dispersion Chart

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section D - Sources of Weather Information

- Preflight Weather Sources
- In-Flight Weather Sources
- Enroute Flight Advisory Service
- Weather Radar Services
- Automated Weather Reporting Systems

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Demonstrate understanding during oral quizzing by instructor at completion of lesson.
- Complete with a minimum score of 80%: questions for Chapter 7 Sections A, B, C, and D. Review with the instructor each incorrect response to ensure complete understanding before taking the Stage II Exam in Ground Lesson 10.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage II - Private Pilot Ground Lesson 10

Stage II Exam

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Demonstrate comprehension of the material presented in Ground Lessons 7-9.

## Academic Content:

### Stage II Exam

- Meteorology for Pilots
- Federal Aviation Regulations
- Interpreting Weather Data

Score \_\_\_\_\_

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- This lesson and stage are complete when the student has passed the Stage II Exam with a minimum score of 80%, and the instructor has reviewed each incorrect response to ensure complete student understanding before progressing to Stage III.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage III Private Pilot Ground Lesson 11

Chapter 8, Airplane Performance

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Learn how to use data supplied by the manufacturer to predict airplane performance, including takeoff and landing distances and fuel requirements.
- Learn to compute and control the weight and balance condition of a typical training airplane.
- Become familiar with basic functions of aviation computers.
- Understand the effects of density altitude on takeoff and climb performance.

## Academic Content:

### Section A - Predicting Performance

- Aircraft Performance and Design
- Chart Presentations
- Factors Affecting Performance
- Takeoff and Landing Performance
- Climb Performance
- Cruise Performance
- Using Performance Charts

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section B - Weight and Balance

- Importance of Weight
- Importance of Balance
- Terminology
- Principles of Weight and Balance
- Computation Method
- Weight and Balance Methods – Computation, Table, and Graph
- Weight Shift Formula
- Effects of Operating at High Total Weights
- Flight at Various CG Positions

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section C - Flight Computers

- Mechanical Flight Computers
- Time, Speed, and Distance
- Airspeed and Density Altitude Computations
- Wind Problems
- Conversions
- Multi-Part Problems

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Calculate airplane performance and weight and balance using performance charts and a flight computer and discuss the results with the instructor.
- Complete with a minimum score of 80%: questions for Chapters 8 Sections A, B, and C. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 12.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage III - Private Pilot Ground Lesson 12

Chapter 9, Navigation

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Learn the basic concepts for VFR flight planning, navigation using pilotage, dead reckoning, and aircraft navigation systems.
- Become familiar with the guidelines and recommended procedures related to flight planning, use of an FAA Flight Plan, VFR cruising altitudes, and lost procedures.
- Gain a basic understanding of VFR navigation using pilotage, dead reckoning, and navigation systems.

## Academic Content:

### Section A - Pilotage and Dead Reckoning

- Pilotage
- Dead Reckoning
- Flight Planning
- VFR Cruising Altitudes
- Flight Plan
- Lost Procedures

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section B - VOR Navigation

- Ground and Airborne Equipment
- VOR Orientation and Navigation
- VOR Checkpoints and Test Signals
- VOR Precautions
- Horizontal Situation Indicator
- Distance Measuring Equipment (DME)

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section C - ADF Navigation

- ADF Equipment
- Orientation
- Homing
- ADF Intercepts and Tracking
- Movable-Card Indicator
- Radio Magnetic Indicator
- ADF Limitations

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section D - Advanced Navigation

- VOR-DME-Based Area Navigation
- Inertial Navigation Systems
- Global Positioning System (GPS)

## Completion Standards:

- Create a flight plan as assigned by the instructor and review the flight plan with the instructor.
- Demonstrate understanding of pilotage and dead reckoning, VOR navigation, ADF navigation, and GPS navigation during oral quizzing by the instructor at completion of lesson.
- Compete with a minimum score of 80% questions for Chapter 9 Sections A, B, C, and D. Review with the Instructor incorrect responses to ensure complete understanding prior to progressing to Ground Lesson 13.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage III - Private Pilot Ground Lesson 13

Chapter 10, Applying Human Factors Principles

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Gain insight into important aviation physiological factors as they relate to private pilot operations.
- Become familiar with single-pilot resource management (SRM) and understand its importance.
- Understand how to apply the aeronautical decision making process to make effective choices during flight operations.
- Become familiar with tools used to perform self-assessments, communicate effectively, manage tasks and resources, and maintain situational awareness.

## Academic Content:

### Section A - Aviation Physiology

- Vision in Flight
- Night Vision
- Visual Illusions
- Disorientation
- Respiration
- Hypoxia
- Hyperventilation

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section B - Aeronautical Decision Making

- Applying the Decision Making Process
- Pilot-in-Command Responsibility
- Hazardous Attitudes
- Risk Management
- Task Management
- Situational Awareness
- CFIT Awareness
- Automation Management
- SRM Training

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Demonstrate understanding of human factors principles, including SRM, during oral quizzing by the instructor.
- Complete with a minimum score of 80% questions for Chapter 10 Sections A, and B. Review with the instructor each incorrect response to ensure complete understanding before starting Ground Lesson 14.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage III - Private Pilot Ground Lesson 14

Chapter 11, Flying Cross-Country

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Gain proficiency in planning a cross-country flight.
- Become familiar with the details of flying a typical cross-country flight, including locating checkpoints, making in-flight time and fuel calculations, and evaluating weather conditions.
- Understand how to make decisions regarding alternative actions, such as implementing a diversion.

## Academic Content:

### Section A - The Flight Planning Process

- Developing the Route
- Preflight Weather Briefing
- Completing the Navigation Log
- Flight Plan
- Preflight Inspection

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Section B - The Flight

- Fundamentals of Flight Monitoring
- Departure
- Centennial Airport to Pueblo Memorial Airport
- Pueblo Memorial Airport to La Junta Municipal Airport
- La Junta Municipal Airport to Centennial Airport
- Diversion to Limon Municipal Airport
- Return to Centennial Airport

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Demonstrate understanding of the flight planning process and of using a flight plan during the flight during oral quizzing by the instructor.
- Complete with a minimum score of 80% question for Chapter 11 Sections A and B. Review with the instructor each incorrect response to ensure complete understanding before taking the Stage III Exam.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage III Private Pilot Ground Lesson 15

Stage III Exam, Private Pilot Textbook Chapters 8-11

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Demonstrate comprehension of the subjects covered in Ground Lessons 11-14

## Academic Content:

### Stage III Exam

- Airplane Performance
- Navigation
- Applying Human Factors Principles
- Flying Cross-Country

Score \_\_\_\_\_

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- This lesson and stage are complete when the student has passed the Stage III Exam with a minimum score of 80%, and the instructor has reviewed each incorrect response to ensure complete student understanding before administering the End-of-Course Final Exams.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_

# Stage III - Private Pilot Ground Lesson 16

Private Pilot Textbook - Chapters 1-11

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

## Lesson Objective:

- Demonstrate comprehension of the material presented in this course in preparation for the FAA Private Pilot Airman Knowledge Test.

## Academic Content:

- Private Pilot End-of-Course Final Exam "A"

Score \_\_\_\_\_

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

## Completion Standards:

- Complete the End-of-Course Final Exam "A" with a minimum passing score of 80% and review with the instructor each incorrect response to ensure complete understanding before taking the End-of-Course Final Exam "B".

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Plot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_



# Stage III - Private Pilot Ground Lesson 17

Private Pilot Textbook - Chapters 1-11

# Leading Edge Aviation

Version 2015

Student Name \_\_\_\_\_

### Lesson Objective:

- Demonstrate comprehension of the material presented in this course in preparation for the FAA Private Pilot Airman Knowledge Test.

### Academic Content:

- Private Pilot End-of-Course Final Exam "B"

Score \_\_\_\_\_

Date Completed \_\_\_\_\_

Time \_\_\_\_\_

### Completion Standards:

- Complete the End-of-Course Final Exam "B" with a minimum passing score of 80% and review with the instructor each incorrect response to ensure complete understanding so the instructor can provide recommendation to take the Private Pilot Airman Knowledge Test.

I certify that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 approved Jeppesen Private Pilot Syllabus.

Instructor \_\_\_\_\_

Date \_\_\_\_\_

Student \_\_\_\_\_

Date \_\_\_\_\_