Leading Edge Aviation

Version 2012

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

Lesson	Ob	iectivo	e:
		,	•

- Become familiar with pilot training, aviation opportunities, and human factors in aviation.
- Gain a basic understanding of the school's pilot training program.

A	.l	: - :	^ -		
Aca	man	10	. : N	nte	nt.

Section	on 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 C	Completed	Time
Section	on B - Aviation Opportunities	
	New Experiences	
	Aviation Organizations	
	Category/Class Ratings	
	Additional Pilot Certificates	
	Aviation Careers	
Date C	Completed	Time
Sectio	on C - Introduction to Human Factors	
	Aeronautical Decision Making	
	Crew Resource Management Training	
	Pilot-in-Command Responsibility	
	Communication	
	Resource Use	
	Workload Management	
	Situational Awareness	
	Aviation Physiology	
	Alcohol, Drugs, and Performance	
	Fitness for Flight	
Date C	Completed	Time
^	lation Observationals	
Comp □	letion Standards:	izzing, familiarity with pilot training programs, opportunities in aviation, and human factors. In additio
ш		has a basic understanding of policies and procedures applicable to the school's pilot training program
	the instructor will make sure the student	has a basic understanding of policies and procedures applicable to the school's pilot training progra
		and the dead and for wearing disconnected and the comment of the Characteristics. Characteristics and the comment of the
-	_	conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
approv	ed Jeppesen Private Plot Syllabus.	
Instruct	tor	Date
Studen	t	Date

Leading Edge Aviation

Version 2012

Note: Students should read Chapter 2, Sections A, B, and C, prior to Ground Lesson 2.

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

Acade	mic Content:	
Section	n A - Airplanes	
	Fuselage	
	Wings	
	Empennage	
	Landing Gear	
	Engine/Propeller	
	Pilot's Operating Handbook (POH)	
	r not a operating transpook (i ori)	
Date Co	ompleted	Time
Section	n B - The Powerplant and Related Sy	ystems
	Reciprocating Engine	
	Induction Systems	
	Supercharging and Turbocharging	
	Ignition Systems	
	Fuel Systems	
	Refueling	
	Oil Systems	
	Cooling Systems	
	Exhaust Systems	
	Propellers	
	Propeller Hazards	
	Electrical Systems	
	•	Time
Date Co	ompleted	Time
Section	n C - Flight Instruments	
	Pitot Static Instruments	
	Airspeed Indicator	
	Altimeter	
	Vertical Speed Indicator	
	Gyroscopic Instruments	
	Magnetic Compass	
Date Co	ompleted	Time
Comple	etion Standards:	
		uizzing by instructor at completion of lesson
		or Sections A,B, and C with a minimum score of 80%. Instructor reviews incorrect responses to
	ensure complete student understanding p	prior to progressing to Ground Lesson 3.
-	that the aforementioned training has been of depresen Private Plot Syllabus.	conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
4.1		
Instructo	or	
. ioti doll	·	
Student_		Date

Leading Edge Aviation

Version 2012

Note: Students should read Chapter 3, Sections A, B, and C, prior to Ground Lesson 3.

- · Become familiar with aerodynamic principles, including the four forces of flight, stability, maneuvering flight, and load factor.
- Gain a basic understanding of stall/spin characteristics as they relate to training airplanes.
- · Learn the importance of prompt recognition of stall indications.

Academic Cor	nte	nt:
--------------	-----	-----

Sect	ion A - Four Forces of Flight	
	Lift	
	Airfoils	
	Pilot Control of Lift	
	Weight	
	Thrust	
	Drag	
	Ground Effect	
Date	Completed	Time
Sect	ion B - Stability	
	Three Axes of Flight	
	Longitudinal Stability	
	Center of Gravity Position	
	Lateral Stability	
	Directional Stability	
	Stalls	
	Spins	
Date	Completed	Time
	Climbing Flight Left-Turning Tendencies Descending Flight Turning Flight Load Factor	
Date	Completed	Time
Com	Student completes Chapter 3 questions for	uizzing by instructor at completion of lesson. or Sections A, B, and C with a minimum passing score of 80%. Instructor reviews incorrect ding prior to progressing to Ground Lesson 4.
	fy that the aforementioned training has been coved Jeppesen Private Plot Syllabus.	conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instru	ctor	Date
Stude	ent	Date

Leading Edge Aviation

Version 2012

Chapter 4, The Flight Environment

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

	Collision Avoidance/Visual Scanning	
	Airport Operations	
	Right-of-Way Rules	
	Minimum Safe Altitudes	
	Taxiing in Wind	
	Positive Exchange of Flight Controls	
Date Co	ompleted	Time
	B - Airports	
	Controlled and Uncontrolled	
	Runway Layout	
	Traffic Pattern	
	Airport Visual Aids	
	Runway and Taxiway Markings	
	Ramp Area Hand Signals	
	Runway Incursion Avoidance	
	Land and Hold Short Operations (LAHSO)	
	Airport Lighting	
	Visual Glideslope Indicators	
	Approach Light Systems	
	Pilot-Controlled Lighting	
Data Co	ompleted	Time
Date Oc	mpieteu	Time
Continu	C. Assessition Charts	
	C - Aeronautical Charts	
	Latitude and Longitude Projections	
	Sectional Charts	
	World Aeronautical Charts	
	World Acronautical Orland	
Date Co	ompleted	Time
Date Oc	mpieteu	Time
Section	C - Airspace	
	Classifications	
	Uncontrolled Airspace	
	Controlled Airspace	
	Class E	
	Class D	
	Class C	
	Class B	
	Class A	
	Special VFR	
	Special Use Airspace	
	Other Airspace Areas	
	Emergency Air Traffic Rules	
	Air Defense Identification Zones	
	All Defense identification Zones	
	ompleted	Time

continued from Ground Lesson 4

Completion Standards:

	Demonstrate understanding during oral quizzing by instructor at complete	on of lesson.	
	Student completes Chapter 4 questions for Sections A, B, C, and D with responses to ensure complete understanding prior to progressing to Gro		rrect
,	that the aforementioned training has been conducted and/or received in ac d Jeppesen Private Pilot Syllabus.	ordance with Leading Edge Aviation Standards and the c	current 141
Instructo	or	Date	
Student		Date	

Leading Edge Aviation

Version 2012

Chapter 3, Communication and Flight Information

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.

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
	by instructor at completion of lesson. ons A, B, and C with a minimum passing score of 80%. Instructor reviews incorrect or to progressing to the Stage I Exam in Ground Lesson 6.
I certify that the aforementioned training has been conducte approved Jeppesen Private Plot Syllabus.	ed and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instructor	Date
Student	Date

Leading Edge Aviation

Version 2012

Private Pilot Textbook Chapters 1-5

1	Δ	:+:
Lesson	OD	iecuve:

• Demonstrate comprehension of the material presented in Chapters 1 through 5 of the Private Pilot textbook.

Stage I	Exam	
	Airplane Systems	
	Aerodynamic Principles	
	The Flight Environment	
	Communication and Flight Information	
Score_		
Date Co	ompleted	Time
Comple		udent has passed the Stage I Exam with a minimum score of 80%, and the instructor has aplete student understanding before progressing to Stage II.
	that the aforementioned training has been conduct d Jeppesen Private Pilot Syllabus.	ed and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instructo	or	Date
Student_		Date

Leading Edge Aviation

Version 2012

Chapter 6, Meteorology for Pilots

- · 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.

Acade	mic	Conte	ent:

Secti	on A - Basic Weather Theory	
	The Atmosphere	
	Atmospheric Circulation	
	Atmospheric Pressure	
	Coriolis Force	
	Global Wind Patterns	
	Local Wind Patterns	
Date	Completed	Time
Secti	on B - Weather Patterns	
	Atmospheric Stability	
	Temperature Inversions	
	Moisture	
	Humidity	
	Dew point	
	Clouds and Fog	
	Precipitation	
	Air masses	
	Fronts	
Date	Completed	Time
Secti	on C - Weather Hazards	
	Thunderstorms	
	Turbulence	
	Wake Turbulence	
	Wind Shear	
	Microburst	
	lcing	
	Restrictions to Visibility	
	Volcanic Ash	
Date	Completed	Time
Com	oletion Standards:	
		ral quizzing by instructor at completion of lesson.
		ons for Sections A, B, and C with a minimum passing score of 80%. Instructor reviews incorrect standing prior to progressing to Ground Lesson 8.
I certif	y that the aforementioned training has be ved Jeppesen Private Pilot Syllabus.	een conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instru	etor	
04		Data

Leading Edge Aviation Version 2012

FAR/AIM - Private Pilot FAR's

- · 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.

Acad	emic Content:	
FAR's	/NTSB	
	FAR Part 1	
	FAR Part 61	
	FAR Part 91	
	NTSB 830	
Date (Completed	Time
Comp □ □	Student completes Ground Lesson 8 P	nizzing by instructor at completion of lesson. ate Pilot FAR Exercises with a minimum passing score of 80%. Instructor reviews incorrect ling prior to progressing to Ground Lesson 9.
	that the aforementioned training has bee ed Jeppesen Private Pilot Syllabus.	onducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instruc	tor	Date
Studen	t	Date

Leading Edge Aviation

Version 2012

Chapter 7, Interpreting Weather Data

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.

Sectio	on A - The Forecasting Process	
	Forecasting Methods	
	Types of Forecasts	
	Compiling and Processing Weather Data	
	Forecasting Accuracy and Limitations	
Date C	Completed	Time
Section	on 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 C	Completed	Time
Section	on 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 C	Completed	Time
Section	on D - Sources of Weather Information	
	Preflight Weather Sources	
	In-Flight Weather Sources	
	Enroute Weather Sources	
	Weather Radar Services	
	Automated Weather Reporting Systems	
Date C	Completed	Time
Comp	letion Standards:	
	Demonstrate understanding during oral quizzin	g by instructor at completion of lesson.
		ctions A, B, C and D with a minimum passing score of 80%. Instructor reviews incorrect
	responses to ensure complete understanding p	
	that the aforementioned training has been conducted Jeppesen Private Pilot Syllabus.	cted and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instruct	or	
Ctudo	•	Date
Studen	l .	Dalt -

Leading Edge Aviation

Version 2012

Stage II Exam

Lesson Objective:

• Demonstrate comprehension of the material presented in Chapters 6 and 7 of the Private Pilot textbook and the FAR's that apply to private pilot operation, including private pilot privileges and limitations, and NTSB accident reporting requirements.

Acade	emic Content:	
Stage I	II Exam	
	Meteorology for Pilots	
	Federal Aviation Regulations	
	Interpreting Weather Data	
Score_		
Date C	ompleted	Time
Compl	etion Standards:	
		udent has passed the Stage II Exam with a minimum score of 80%, and the instructor has uplete student understanding before progressing to Stage III.
	that the aforementioned training has been of d Jeppesen Private Pilot Syllabus.	ed and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instructo	or	Date
Student		Date

Leading Edge Aviation

Version 2012

Date___

Date_

Chapter 8, Airplane Performance

Lesson Objective:

Instructor_

Student_

- · 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.
- Understanding the effects of density altitude on takeoff and climb performance.

Acader	nic 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 Co	mpleted	Time
Section	B - Weight and Balance	
	Importance of Weight	
	Importance of Balance	
	Terminology	
	Principles of Weight and Balance	
	Computation Method	
	Table Method	
	Graph Method	
	Weight Shift Formula	
	Effects of Operating at High Total Weights	
	Flight at Various CG Positions	
Date Co	mpleted	Time
Section	C - Flight Computers	
	Mechanical Flight Computers	
	Time, Speed, and Distance	
	Airspeed and Density Altitude Computations	
	Wind Problems	
	Conversions	
	Multi-Part Problems	
Date Co	mpleted	Time
Comple	tion Standards:	
	Demonstrate understanding during oral quizzing	
		ctions A, B, and C with a minimum passing score of 80%. Instructor reviews incorrect
	responses to ensure complete understanding p	rior to progressing to Ground Lesson 12.
I certify th	at the aforementioned training has been conduc	cted and/or received in accordance with Leading Edge Aviation Standards and the current 141
-	Jeppesen Private Plot Syllabus.	

Leading Edge Aviation

Version 2012

Date___

Chapter 9, Navigation

Lesson Objective:

- · Learn the basic concepts for VFR 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 C	content:
------------	----------

Student

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)	Secti	on A - Pilotage and Dead Reckoning	
Flight Planning VFR Crusing Altitudes Flight Plan Lost Procedures Date Completed 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 Horizontal Situation Indicator Distance Measuring Equipment (DME) Date Completed Time Section C - ADF Navigation ADF Intercepts and Tracking ADF Intercepts and Tracking ADF Intercepts and Tracking ADF Intercepts and Tracking Novable-Card Indicator Radio Magnetic Indicator Radio Magnetic Indicator ADF Limitations Date Completed Time Section VOR-Now-Rased Aven Navigation Inertial Navigation Systems Global Positioning System (GPS) Completion Standards: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete understanding prior to progressing to Ground Lesson 13.		Pilotage	
□ VFR Cruising Altitudes Flight Plan Lost Procedures Section B - VOR Navigation Ground and Airborne Equipment VOR Oncetation and Navigation VOR Checkpoints and Test Signals VOR Precautions Horizontal Situation Indicator Distance Measuring Equipment (DME) Time		Dead Reckoning	
□ Flight Plan Lost Procedures Date Completed □ Time □ □ Ground and Airborne Equipment □ VOR Orientation and Navigation □ VOR Orientation and Test Signals □ VOR Precautions □ Horizontal Situation Indicator □ Distance Measuring Equipment (DME) Date Completed □ Time □ □ ADF Equipment □ Orientation □ Horning □ ADF Intercepts and Tracking □ ADF Intercepts and Tracking □ Movable-Card Indicator □ Radio Magnetic Indicator □ Radio Magnetic Indicator □ Radio Magnetic Indicator □ ADF Limitations Date Completed □ Time □ □ VOR-DME-Based Area Navigation □ VOR-DME-Based Area Navigation □ Inertial Navigation Systems □ Global Positioning System (GPS) Completion Standards: □ Demonstrate understanding during oral quizzing by instructor at completion of lesson. □ Suddent completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.		Flight Planning	
Date Completed		VFR Cruising Altitudes	
Date Completed		Flight Plan	
Section B - VOR Navigation Ground and Airborne Equipment VOR Orientation and Navigation North 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 Radio Magnetic Indicator ADF Limitations Date Completed Time Section D - Advanced Navigation Orientation Section D - Sec		_	
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 Orientation Homing ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator Radio Magnetic Indicator ADF Limitations Date Completed Time Completed Time Correction Orientation Homing ADF Intercepts and Tracking Novable-Card Indicator Radio Magnetic Indicator Gradio Ma	Date	Completed	Time
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 Orientation Homing ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator Radio Magnetic Indicator ADF Limitations Date Completed Time Completed Time Correction Orientation Homing ADF Intercepts and Tracking Novable-Card Indicator Radio Magnetic Indicator Gradio Ma	Secti	on B - VOR Navigation	
□ VOR Orientation and Navigation VOR Precautions □ Horizontal Situation Indicator □ Distance Measuring Equipment (DME) Date Completed		=	
□ VOR Checkpoints and Test Signals □ VOR Precautions □ Horizontal Situation Indicator □ Distance Measuring Equipment (DME) Date Completed			
VOR Precautions			
Horizontal Situation Indicator Distance Measuring Equipment (DME) Date Completed			
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: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.			
Section C - ADF Navigation ADF Equipment Orientation Homing ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator ADF Limitations Date Completed			
Section C - ADF Navigation ADF Equipment Orientation Homing ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator ADF Limitations Date Completed			
ADF Equipment Orientation Homing ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator ADF Limitations	Date	Completed	Time
□ 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: □ Demonstrate understanding during oral quizzing by instructor at completion of lesson. □ Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.	Secti	on C - ADF Navigation	
Homing ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator ADF Limitations Date Completed		ADF Equipment	
ADF Intercepts and Tracking Movable-Card Indicator Radio Magnetic Indicator ADF Limitations Date Completed		Orientation	
 □ Movable-Card Indicator □ Radio Magnetic Indicator □ ADF Limitations □ Date Completed		Homing	
□ Radio Magnetic Indicator ADF Limitations Date Completed		ADF Intercepts and Tracking	
Date Completed Time Section D - Advanced Navigation VOR-DME-Based Area Navigation Inertial Navigation Systems Global Positioning System (GPS) Completion Standards: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.		Movable-Card Indicator	
Date Completed Time Section D - Advanced Navigation VOR-DME-Based Area Navigation Inertial Navigation Systems Global Positioning System (GPS) Completion Standards: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.		Radio Magnetic Indicator	
Section D - Advanced Navigation VOR-DME-Based Area Navigation Inertial Navigation Systems Global Positioning System (GPS) Completion Standards: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.			
□ VOR-DME-Based Area Navigation □ Inertial Navigation Systems □ Global Positioning System (GPS) Completion Standards: □ Demonstrate understanding during oral quizzing by instructor at completion of lesson. □ Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.	Date	Completed	Time
□ VOR-DME-Based Area Navigation □ Inertial Navigation Systems □ Global Positioning System (GPS) Completion Standards: □ Demonstrate understanding during oral quizzing by instructor at completion of lesson. □ Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.	Secti	on D - Advanced Navigation	
□ Inertial Navigation Systems □ Global Positioning System (GPS) Completion Standards: □ Demonstrate understanding during oral quizzing by instructor at completion of lesson. □ Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.			
Completion Standards: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.			
Completion Standards: Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.		- · · · · · · · · · · · · · · · · · · ·	
Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.		alobal rositioning dystem (ar o)	
Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.	0	alation Chandoudo	
Student completes Chapter 9 questions for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews 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 Plot Syllabus.	Com		wijening by instructor at completion of leason
approved Jeppesen Private Plot Syllabus.		Student completes Chapter 9 questions t	for Sections A, B, C, and D with a minimum passing score of 80%. Instructor reviews incorrect
Instructor Date			conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
	Instruc	ctor	Date

Leading Edge Aviation

Version 2012

Chapter 10, Applying Human Factors Principles

Lesson Objective:

- · Gain an insight into important aviation physiological factors as they relate to private pilot operations.
- · 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, use resources, manage workload, and maintain situational awareness.

Section	on A - Aviation Physiology	
	Vision in Flight	
	Night Vision	
	Visual Illusions	
	Disorientation	
	Respiration	
	Нурохіа	
	Hyperventilation	
Date (Completed	Time
Section	on B - Aeronautical Decision Making	
	Applying the Decision Making Process	
	Pilot-in-Command Responsibility	
	Communication	
	Workload Management	
	Resource Use	
	Situational Awareness	
	Applying Human Factors Training	
Date (Completed	Time
Comp	Demonstrate understanding during oral quizz Student completes Chapter 10 questions for to ensure complete understanding prior to pro	Sections A, and B with a minimum passing score of 80%. Instructor reviews incorrect responses
	y that the aforementioned training has been cond red Jeppesen Private Plot Syllabus.	ducted and/or received in accordance with Leading Edge Aviation Standards and the current 141
Instruc	ctor	Date
Studer	nt	Date

Leading Edge Aviation

Version 2012

Chapter 11, Flying Cross-Country

- Develop a found understanding of the planning process for 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.

_			_	_	
Δra	dem	ir (ີດr	nten	٠.

Sectio	n A - The Flight Planning Process	
	Developing the Route	
	Preflight Weather Briefing	
	Completing the Navigation Log	
	Flight Plan	
	Preflight Inspection	
Date C	Completed	Time
Sectio	n B - The Flight	
	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 C	Completed	Time
Compl	letion Standards: Demonstrate understanding during oral quizzing by instru Student completes Chapter 11 questions for Sections A a to ensure complete understanding prior to progressing to	and B with a minimum passing score of 80%. Instructor reviews incorrect responses
-	that the aforementioned training has been conducted and/o	or received in accordance with Leading Edge Aviation Standards and the current 141
Instruct	or	Date
Student	L	Date

Leading Edge Aviation

Version 2012

Stage III Exam, Private Pilot Textbook Chapters 8-11

Lesson (Ob	iective	:
----------	----	---------	---

• Demonstrate comprehension of the material presented in Chapters 8 through 11 of the Private Pilot textbook.

Acad	emic Content:
Stage	III Exam
	Airplane Performance
	Navigation
	Applying Human Factors Principles
	Flying Cross-Country
Score_	
Comp	letion 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 progressing to the End-of-Course Final Exams.
	that the aforementioned training has been conducted and/or received in accordance with Leading Edge Aviation Standards and the current 141 ed Jeppesen Private Plot Syllabus.
Instruct	or Date
Studen	t

Leading Edge Aviation

Version 2012

Private Pilot Textbook - Chapters 1-11

Lesson	Ob	iectiv	e:
			•

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

Acade	emic Content:	
	Private Pilot End-of-Course Final Exam "A"	
Score_		
Comple	letion Standards: The student must complete the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of incorrect response to ensure complete student understanding before progressing to the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score of the End-of-Course Final Exam "A" with a minimum passing score	
	that the aforementioned training has been conducted and/or received in accordance with Leading led Jeppesen Private Plot Syllabus.	Edge Aviation Standards and the current 141
Instructo	orDate	e
Student	t Date	

Leading Edge Aviation

Ground Lesson 17

Private Pilot Textbook - Chapters 1-11

Version 2012

Lesson Objective:

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

Acade	mic Content:	
	Private Pilot End-of-Course Final Exam "B"	
Score_		
Comple □	etion Standards: The student must complete the End-of-Course Final Exam "B" with a minimum passing sconincorrect response to ensure complete student understanding.	ore of 80% and the instructor should review each
	hat the aforementioned training has been conducted and/or received in accordance with Lead Jeppesen Private Plot Syllabus.	iding Edge Aviation Standards and the current 141
Instructo	r	Date
Student		Date