

Nice Air Private Pilot Course Part 61 Training Syllabus

Private Pilot Syllabus

COURSE OVER VIEW--GROUND TRAINING

		GR	OUND TRAINI	NG	
	Private Pilot Maneuvers, Class Discussion, Video and CD- ROM	Private Pilot Manual,Class Discussion and Video	Pilot Briefings	Stage/ Final Exams	Exam Debriefings
GROUND STAGE I	3.0	10.0		1.0	As Required
GROUND STAGE II	3.0	6.0	2.0	1.0	As Required
GROUND STAGE III	3.0	6.0	2.0	4.0	1.0
TOTAL	9.0	24.0	4.0	6.0	1.0

COURSE OVERVIEW-----FLIGHT TRAINING

			FLIGH	IT TRA	IN IN G			
			DUAL			S 0	LO	
	Day Local	Day Cross Country	N ight Local	N ght Cross Country	Instrum ent	Day Local	C ross Country	Dual/Sob Combined Total
FLIGHT SATGE I	140				10	0.5		140
FLIGHT STAGE II	7.5	20	10	20	20	ΩE	20	170
FLIGHT STAGE III	3.5					15	3.0	75
TOTALS	25 D	2.0	10	2.0	3.0	5Ω	5Ω	40 D

Note; Dual instrument training in airplane is allocated to portion of flight lessons 3,4,5,7,8, 14,15,18, and 19 for a total of 30 hours. The minimum recommended times are 2 hours (12 minutes) for Flight lesson 3,4,5,7,8 and 5 hours (30 minutes) each for Flight lesson 14,15, 18, and 19. The total of 30 hours of instrument training is specified in Part 61 109 (a).

					LESSON TIME ALLOCATION								
G	round	l tra	'n'ng	J		Flight training							
Ou	0					Dual					Sob		
Private pibt maneuvers , discussion	MPRRepibtmanual, cbss,discusson,∨deo	Pibtbreffig	Stage/Finalexam	Exam debrieffig		Day bcal	Day cross-country	N ight bcal	N ight cross-country	Instrum ent	Day bcal	Day cross-country	
					Ground stage I, II and Flight stage	Ι							
	20				Ground esson 1-D scovering aviation								
	20				Ground Esson 2-Airplane systems								
					Flight 1-Introduction to flight	0.5							
	20				Ground Esson 3-Aerodynamic principles								
10					Flight 2-G round operation	10							
	20				Ground esson 4-The flighten∨ironment								
10					Flight 3-Basic maneuvers & Stalls	20				02			
	20				Ground lesson 5-Communication & Flight info.								
10					Flight 4-Emergency operation	20				02			
			10	As req.	Ground Esson 6-Stage Iexam								
10					Flight 5-G round reference maneuvers	20				02			
	20				Ground lesson 7-Meteorology for pilots								
10					Flight 6-A irport operations	20							
	20				Ground Esson 8-Federal aviation regulation								
10					Flight 7-Foward slip, Power off landing Ground lesson 9-Interpreting weather	20				02			
	20				data								
		20		As req.	Pre-solowritten exam and briefing								
					Flight 8-Review	10				02			
			10	As req.	Ground lesson 10-Stage Ⅱexam								
				Ė	Flight 9-Stage check	10							
					Flight 10-First so b	0.5					0.5		
60	160	20	10	As req.	Stage total	140				10	0.5		

NOTE:1. The first column shows the recommended Private PibtManeuvers discussion, video, and/orCD-ROM training time. The third column shows the minimum recommended training time for private PibtManualclass discussion, and video. Times shown in columns 1 may be credited toward the total time shown in column 3 up to 9 hours of Private PibtManeuvers class discussion, video, and/orCD-ROM.

					LESSON TIME ALLOCATION							
G	round	l tra	n'ng					F7igh	nt tra	inng]	
				Г				Dua	1]		Sc	оЪ
									<u> </u>		3	
Private pibtm aneuvers , discussion, video	Private pibtmanual, class, discussion, video	Pibtbrieffig	Stage/Finalexam	Exam debrefing		Day bcal	Day cross-country	Night bcal	N ight cross-country	Instrum ent	Day bcal	Day cross-country
					Ground stage III and Flight stage	п						
	20				Ground Esson 11-Airplane performance							
10					Flight 11-Perform ance takeoffs and	20						
10					andings	20						
	20				Ground Esson 12-Navigation							
					Flight 12-Second Sob						10	
	20				Ground Esson 13-Human factors principles							
					Flight 13-Local area so b						10	
	20				Ground Esson 14-Flying cross country							
10					Flight 14-VOR/ADF/GPS	20				0.5		
			10	As req.	Ground esson 15-Stage ≖exam							
					Flight 15-Dual instrum ent	20				0.5		
					Flight 16-Sob to Uncontrolled Airport						10	
					Flight 17-Dual night			10				
10					Flight 18-Dual cross-country		20			0.5		
		20			Flight 19-Dual Night cross-country				20	0.5		
			30	10	Ground lesson 16 & 17-Final exam A & B							
					Flight 20-Stage Check	15						
					Briefing-Sob cross-country							
					Flight 21-Sob cross-country							20
3.0	0.8	20	40	As reg.	Stage total	75	20	10	20	20	3 D	

NOTE: The first column shows the recommended Private PibtManeuvers discussion, video. The third column shows the minimum recommended training time for private PibtManual class discussion, and video. Times shown in columns 1 may be credited toward the total time shown in column 3 up to 9 hours of Private PibtManeuvers class discussion, video.

					LESSON TIME ALLOCATION							
(round	d tra	'n'ng	J				FÌigh	nt tra	anno	3	
								Dua	เไ		Sc	оЪ
Private pibtm aneuvers , discussion, video	Private pibtmanual, class, discussion, video	Pibtbreffig	Stage/Finalexam	Exam debrėfing		Day bcal	Day cross-country	Night bcal	N ight cross-country	Instrum ent	Day bcal	Day cross-country
					Flight stage III							
					Flight 22-Sob Long cross-country							30
					Flight 23-Dual PTS preparation	20						
					Flight 24-Sob PTS preparation						15	
					Flight 25–Stage Check	15						
		As req.			Brefing-Private pibt practical test							
					Flight 26-Private Pibt Practical Test	As Req.						
					Stage total	3.5					15	30

The individual times shown on the accompanying beson time alboration tables are for instructor/student guidance only; they are not mandatory for each ground beson, flight beson or stage of training. At the end of this course, the student must meet the minimum requirements of FAR part 61,109(a) in order to graduate. Preflight and post flight briefing time are not specified but minimum of 5 hour for each dualor sob besons is suggested. The time for the pibt briefing, although assigned and completed along with selected flight besons, are considered part of ground training.

Private Pilot Certification Course Airplane Single-Engine Land

Ground Training: 35 Hours

GROUND TRAINING COURSE OBJECTIVES

The student will obtain the knowledge, skill, and aeronautical experience necessary to meet the requirements for a private pilot certificate with an airplane category rating and a singleengine land class rating.

GROUND TRAINING COURSE COMPLETION STANDARDS

The student must demonstrate through knowledge tests, flight tests, and show through appropriate records that he / she meets the knowledge, skill, and experience requirements necessary to obtain a private pilot certificate with an airplane category rating and a single-engine land class rating.

STAGE I

STAGE OBJECTIVES

During this stage, the student will be introduced to pilot training, aviation opportunities, human factors in aviation, and become familiar with airplane systems and aerodynamic principles, as well as the flight environment. The student also will obtain a basic knowledge of safety of flight, airports, aeronautical charts, airspace, radio communications, and air traffic control services, including the use of radar. In addition, the student will learn radio procedures and the common sources of flight information.

STAGE COMPLETION STANDARDS

This stage is complete when the student has completed the Stage I written exam with a minimum passing score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding before the student progresses to Stage II.

STAGE I

GROUND LESSON 1

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 1, Discovering Aviation

RECOMENNDED SEQUENCE:

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

Lesson introduction

Class discussion

LESSON OBJECTIVES:

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

ACADEMIC CONTENT:

SECTION A-PILOT TRAINING

- How to get started
- Role of the FAA
- Fixed-base operations (FBOs)
- Eligibility requirement
- Types of training available
- Phases of training
- Private pilot privileges and limitations

SECTION B- AVIATION OPPORTUNITIES

- New experiences
- Aviation organizations
- Category/Class ratings
- Additional pilot certificates
- Aviation careers

SECTION C-INTRODUCTION TO HUMAN FACTORS

Aeronautical decision making

- Crew resource management
- Pilot-In Command responsibility
- Communication
- Resource use
- Workload management
- Situational awareness
- Aviation physiology
- Alcohol, drugs and performance
- Fitness for flight

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL CHAPTER2, Airplane systems

COMPLETION STANDARDS:

The student willl indicate, though oral quizzing, familiarity with pilot training programs, opportunities in aviation, and human factor. In addition, the instructor will make sure the student has a basic understanding of policies and procedure applicable to the school's pilot training program.

STAGE I

GROUND LESSON 2

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 2, Airplane Systems

VIDEO

PART I, CHAPTER 2

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- 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.

ACADEMIC CONTENT:

SECTION A-AIRPLANE

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

SECTION B-THE POWER PLANT AND RELEATED SYSTEMS

- Reciprocating Engine
- Induction Systems
- Supercharging and Turbo charging
- Ignition Systems
- Fuel Systems
- Refueling
- Oil Systems
- Cooling Systems
- Exhaust Systems

- Propellers
- Propeller Hazards
- Electrical Systems

SECTION C-FLIGHT INSTRUMENTS

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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

CHAPTER 3, Aerodynamic Principles

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 2 questions for Sections A, B, and C with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure student understanding prior to progression to Ground Lesson 3.

STAGE I

GROUND LESSON 3

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 3, Aerodynamic Principles

VIDEO

PART I, CHAPTER 3

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- Become familiar with the four forces of flight, aerodynamic principles of 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 CONTENT:

SECTION A-FOUR FORCE OF FLIGHT

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

SECTION B-STABILITY

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

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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

CHAPTER 4, The Flight Environment

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 3 questions for Sections A, B, and C with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete student understanding prior to progression to Ground Lesson 4

SECTION C-AERODYNAMICS OF MANEUVERING FLIGHT

STAGE I

GROUND LESSON 4

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 4 The Flight Environment

VIDEO

PART II, CHAPTER 4

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- Class Discussion

LESSON OBJECTIVES:

- Understand important safety considerations, including collision avoidance cautions, flight-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 -SAFETY OF FLIGHT

- Collision Avoidance/Visual Scanning
- Airport Operations
- Right-of-Way Rules
- Minimum Safe Altitudes
- Taxiing in Wind
- Positive Exchange of Flight Controls

SECTION B-AIRPORTS

- Controlled and Uncontrolled
- Runway Layout
- Traffic Pattern
- Airport Visual Aids
- 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

SECTION C-AERONAUTICAL CHARTS

- Latitude and Longitude
- Projections
- Sectional Charts
- World Aeronautical Charts
- Chart Symbology

SECTION D-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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

CHAPTER 5, Communication and Flight Infromation

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 4 questions for Sections A.B. C. and D with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete student understanding prior to progression to ground Lesson 5.

STAGE I

GROUND LESSON 5

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 5, Communication And Flight Informations

VIDEO

PART II, CHAPTER 5

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- Become familiar with radar, transponder operations, and FAA radar equipment and services for VFR aircraft.
- Understand the types of service provided by an F5S.
- Learn how to use the radio for communication. 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 CERVICE

- Radar
- Transponder Operation
- FAA Radar Systems
- VFR Radar Services
- Automatic Terminal Information Service (ATIS)
- Flight Service Stations
- VHF Direction Finder Assistance

SECTION B-RADIO PROCEDURES

- VHF Communication Equipment
- Using the Radio
- Phonetic Alphabet
- Coordinated Universal Time
- Common Traffic Advisory Frequency (CTAF)
- ATC Facilities and Controlled Airports
- Lost Communication Procedures

Emergency Procedures

• Emergency Locator Transmitters (ELTs)

SECTION C-SOURCE OF FLIGHT INFORMATION

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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

Review Chapters 2,3,4 and 5 in preparation for the Stage I Exam.

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 6 question for Sections A, B, C with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete understanding prior to progression to the Stage Exam in Ground Lesson 6.

STAGE I

GROUND LESSON 6

STAGE I EXAM

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 1 through 5,

VIDEO

PART I AND II, CHAPTER1-5

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction
- 2. Testing
- 3. Critique

LESSON OBJECTIVES:

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

ACADEMIC CONTENT:

STAGE EXAM

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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

Review Chapters 6, Meteorology for Pilot

COMPLETION STANDARDS:

This lesson and stage are complete when the student has completed the Stage 1 Exam with minimum of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding before the student progresses to Stage II

PRIVATE PILOT SYLLABUS
STAGE II
STAGE OBJECTIVES
During this stage, the student will become familiar with weather theory, typical weather pattern and aviation weather hazards. In addition to meteorological theory, the student will learn how to obtain and interpret various weather reports, forecasts and graphic charts. Finally, the student will become thoroughly familiar with FAR as they apply to private pilot operations.
STAGE COMPLETION STANDARDS
This stage is complete when the student has completed the Stage II written exam with a minimum passing score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding before the student progresses to Stage III.

STAGE I

GROUND LESSON 7

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 6, Meteorology for Pilot

VIDEO

PART III, CHAPTER 6

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- 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 the 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

SECTION B-WEATHER PATTERN

- · Atmospheric Stability
- Temperature Inversions
- Moisture
- Humidity
- Dewpoint
- Clouds and Fog
- Precipitation
- Airmasses

Fronts

SECTION C-WEATHER HAZERDS

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

STUDY ASSIGNMENT:

FAR/ AIM

Private Pilot FARs, Recommended Study Lists

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Chapter 6 question for Sections A, B, C with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete understanding prior to Ground Lesson 8.

STAGE II

GROUND LESSON 8

LESSON REFERENCE:

FAR/AIM

Private Pilot FARs

FAR/AIM Manual

Private Pilot FARs

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

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

ACADEMIC CONTENT:

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

STUDY ASSIGNMENT:

Private Pilot Manual-

Chapter 7, Interpreting Weather Data

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes Ground Lesson 8 Private Pilot FAR Exercises with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure understanding prior to progressing to Ground Lesson 9.

STAGE II

GROUND LESSON 9

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 7, Interpreting Weather Data

VIDEO

PART III, CHAPTER 7

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- Class Discussion

LESSON OBJECTIVES:

- 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

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

SECTION C-GRAPHIC REPORTS AND FORECASTS

- Surface Analysis Chart
- Weather Depiction Chart Radar Summary Chart

- Satellite Weather Pictures
- Low-Level Significant Weather Prog
- Severe Weather Outlook Chart
- Forecast Winds and Temperatures Aloft Chart
- Volcanic Ash Forecast and Dispersion Chart

SECTION D-SOURCE OF WEATHER INFORMATION

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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

Review Chapters 6 and 7 and the FAR/AIM in preparation for the Stage II Exam.

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at the completion of lesson. Student completes Chapter 7 questions for Section A, B, C and D with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete student understanding prior to progressing to the Stage II Exam.

STAGE II

GROUND LESSON 10

STAGE II EXAM

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 6 and 7

FAR/AIM-Private Pilot FARs

VIDEO

PART III, CHAPTER 6 and 7

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction
- 2. Testing
- 3. Critique

LESSON OBJECTIVES:

• Demonstrate comprehension of the material presented in Chapters 6 and 7 of the Private Pilot Manual and the FARs that apply to private pilot operations, including private pilot privileges, limitations, and NTSB accident reporting requirements.

ACADEMIC CONTENT:

STAGE II EXAM

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

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

CHAPTER 8, Airplane Performance

COMPLETION STANDARDS:

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

STAGE III

STAGE OBJECTIVES

During this stage, the student will learn how to predict performance and control the weight and balance condition of the airplane. In addition, the student will be introduced to pilotage, dead reckoning, and navigation equipment. This includes understanding the basic concepts of how to use actual charts, potters, flight computers, and flight publications to plan cross-country flight. The student will learn how to use VOR, ADF, and advanced navigation systems. In addition, the student will obtain an understanding of the physiological factors which can affect both pilot and passengers during flight. Finally, the student will learn how to conduct comprehensive preflight planning for cross-country flights and gain insight into factors affecting aeronautical decision making.

STAGE COMPLETION STANDARDS

This stage is complete when the student has completed the Stage III written exam with a minimum passing score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding.

STAGE III

GROUND LESSON 11

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 8, Airplane Performance

VIDEO

PART IV, CHAPTER 8

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- 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

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

ECTION C-WEATHER HAZERDS

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

STUDY ASSIGNMENT:

Private pilot manual-

CHAPTER 9, Navigation

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of each lesson. Student completes Chapter 8 questions for Section A, B and C with a minimum passing score of 80%. Instructor reviews incorrect answers to ensure complete understanding prior to progressing to Lesson 12

STAGE III

GROUND LESSON 12

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 9, Navigation

VIDEO

PART IV, CHAPTER 9

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- Learn the basic concepts for VFR navigation using pilotage, dead reckoning, and aircraft navigation systems.
- Become familiar with guidelines and recommended procedures related to flight planning, use of an FAA Right 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
- Right Planning
- VFR Cruising Altitudes
- Flight Plan
- Lost Procedures

SECTION B-VOR NAVIGATION

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

SECTION C-ADF NAVIGATION

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

SECTION D-ADVANCED NAVIGATION

- VORTAC-Based Area Navigation
- Inertial Navigation System
- · Global Positioning System

STUDY ASSIGNMENT:

Private pilot manual-

CHAPTER 10, Applying Human Factors Principles

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 80%. Instructor reviews incorrect responses to ensure complete student understanding prior to progressing to Ground Lesson 13.

STAGE III

GROUND LESSON 13

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 10, Applying Human Factors Principles

VIDEO

PART V, CHAPTER 10

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- Gain an insight into important aviation physiological factors as they relate to private pilot operations.
- Become familiar with the accepted procedures and concepts pertaining to aeronautical decision making and judgment, including cockpit resource management and human factors training.
- Gain a basic understanding of aeronautical decision making and judgment.

ACADEMIC CONTENT:

SECTION A-AVIATION PHYSIOLOGY

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

SECTION B-AERONAUTICAL DECISION MAKING

- Applying the Decision Making Process
- Pilot-in-Command Responsibility
- Communication
- Workload Management
- Situational Awareness
- Resource Use

• Applying Human Factors Training

STUDY ASSIGNMENT:

Private pilot manual-CHAPTER 11, Flying cross-country

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes for Sections A. and B with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete student understanding prior to progressing to Ground Lesson 14.

STAGE III

GROUND LESSON 14

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 11, Flying Cross-Country

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction and Video Presentation
- 2. Class Discussion

LESSON OBJECTIVES:

- Develop a sound understanding of the planning process for a cross-country flight.
- Become familiar with the details of flying a typical cross-country flight, including evaluation of in-flight weather and decisions for alternative actions, such as a diversion.
- Understand how to plan for alternatives.

ACADEMIC CONTENT:

SECTION A-THE FLIGHT PLANNING PROCESS

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

SECTION B-THE FLIGHT

- Departure Reid-Hillview Airport to Stockton Airport
- Stockton Airport to Hollister Airport
- Hollister Airport to Reid-Hillview
- Diversion to San Jose International Airport
- Return to Reid-Hillview Airport

STUDY ASSIGNMENT:

Private pilot manual-

CHAPTER 8-11 in preparation for the Stage III Exam

COMPLETION STANDARDS:

Demonstrate understanding during oral quizzing by instructor at completion of lesson. Student completes for Sections A, and B with a minimum passing score of 80%. Instructor reviews incorrect responses to ensure complete student understanding prior to progressing to Ground Lesson 14.

STAGE III

GROUND LESSON 15

STAGE III EXAM

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 8-11

VIDEO

PART III, CHAPTER 8-11

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction
- 2. Testing
- 3. Critique

LESSON OBJECTIVES:

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

ACADEMIC CONTENT:

STAGE III EXAM

- Airplane Performance
- Navigation
- Human Factors Principles
- Aeronautical Decision Making
- Flying Cross-Country

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

Review entire manual, as necessary, in preparation for Private Pilot Final Exam "A"

COMPLETION STANDARDS:

This lesson and stage are complete when the student has completed the Stage III Exam with a minimum passing score of 80% and the instructor has reviewed each incorrect response to ensure complete understanding before the student progresses to the course final examinations.

STAGE III

GROUND LESSON 16

END OF COURSE FINAL EXAM "A"

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 1-11

VIDEO

PART I-V, CHAPTER 2-10

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction
- 2. Testing
- 3. Critique

LESSON OBJECTIVES:

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

ACADEMIC CONTENT:

• Private Pilot Final Exam "A"

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

Review any deficient subject areas based on the result of End of Course Final Exam "A". Review in preparation for Private Pilot Final Exam "B"

COMPLETION STANDARDS:

Each student must complete the Private Pilot Final exam "A" with a minimum passing score of 80%, and the instructor should review each incorrect response to ensure complete understanding before the student progresses to the Private Pilot Final Exam "B."

STAGE III

GROUND LESSON 17

END OF COURSE FINAL EXAM "B"

LESSON REFERENCE:

PRIVATE PILOT MANUAL-

CHAPTER 1-11

VIDEO

PART I-V, CHAPTER 2-10

RECOMENNDED SEQUENCE:

- 1. Lesson Introduction
- 2. Testing
- 3. Critique

LESSON OBJECTIVES:

• Demonstrate comprehension of the academic material presented in this course and the student's readiness to complete the FAA Private Pilot Airmen Knowledge Test.

ACADEMIC CONTENT:

• Private Pilot Final Exam "B"

STUDY ASSIGNMENT:

PRIVATE PILOT MANUAL

Review any deficient subject areas based on the result of End of Course Final Exam "A". Review in preparation for FAA Private Pilot Airman Knowledge Test.

COMPLETION STANDARDS:

Each student must complete Private Pilot Final Exam"B" with a minimum score of 80%, and the instructor should review each incorrect response to ensure complete understanding

PRIVATE PILOT FLIGHT TRAINING SYLLABUS

FLIGHT TRAINING COURSE OBJECTIVES

The student pilot will obtain the necessary skill and experience necessary to obtain a private pilot certificate with an airplane category rating and single-engine and class rating

FLIGHT TRAINING

COURESE COMPLETION REQUIREMENTS

The student must demonstrate though flight test and school records that the necessary aeronautical skill and experience requirements to obtain a private pilot with an airplane category rating and single engine land class rating have been met.

STAGE I

STAGE OBJECTIVE

During this stage, the student will obtain the foundation for all future aviation training. The student become familiar with the training airplane and learns how the airplane controls are used to establish and maintain specific flight attitude and ground tracks. The student also will gain the proficiency to solo the training airplane in the traffic pattern.

STAGE COMPLETION STANDARDS

At the completion of this stage, the student will demonstrate proficiency in basic flight maneuvers, and will have successfully soloed in the traffic pattern. In addition, the student will have the proficiency required for introduction of maxim performance takeoffs and landings procedure in Stage II.

STAGE II

STAGE OBJECTIVE

This stage allows the student to expand the skill learned in the previous stage. The student is introduced to short-field and soft-field takeoff and landing procedures, as well as night flying, which are important steps in preparation for cross country training. Additionally,

grater emphasis is placed on attitude control by instrument reference to increase the student's overall competence. In the cross-country phase, the student will learn to plan and conduct cross-country flights using pilotage, dead reckoning, and radio navigation systems and how to safely conduct flight in the national airspace systems.

STAGE COMPLETION STANDARDS

This stage is completed when the student can accurately plan and conduct cross-country flights. In addition, the student will have the proficiency to safely demonstrate consistent results in performing short-field and soft-field takeoffs and landings and night operations. The proficiency level must be such that the successful and safe outcome of each task is never seriously doubt.

STAGE III

STAGE OBJECTIVES

During this stage, the student will gain additional proficiency in solo cross-country operations and will receive instruction in preparation for the end-of-course stage check.

STAGE COMPLETION STANDARDS

This stage will be complete when the student demonstrates performance of private pilot operations at a standard that meets or exceeds the minimum performance criteria established in the practical test standards for a private pilot certificate.

STAGE I

FLIGHT LESSON 1

Dual-Local (0.5)

LESSON OBJECTIVES:

- Become familiar with the training airplane and its systems.
- Learn about certificate, documents, and checklists. Understand how to conduct the necessary preflight activities. Learn about the functions of the flight controls, and how they are used to maintain specific attitude.
- Gain an understanding of preflight preparation and procedures.

PRE-FLIGHT DISCUSSION:

- Fitness for flight
- Positive exchange of flight control
- certificates and documents
- Airworthiness requirement
- Airplane logbook
- Airplane servicing
- Fuel grade

INTRODUCE:

- Use of checklists
- Operation of systems
- Equipment check
- Location of first aid kit
- Location of fire extinguisher
- Engine starting
- Radio communication
- Positive exchange of flight control
- Taxiing
- Before takeoff check
- Normal takeoff and climb
- Straight-and-level flight
- Climb, descend, and level offs
- Medium bank turn in both directions

- Normal approach and landing
- After landing, parking and securing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Ground operations and basic maneuvers

- Display basic knowledge of aircraft systems and the necessity of checking their operation before the flight.
- Become familiar with the control systems and how they are used to maneuver the airplane on the ground and in the air.

STAGE I

FLIGHT LESSON 2

Dual-Local (1.0)

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Ground operations and basic maneuvers

MANEUVERS VIDEO

Ground operations and basic maneuvers

LESSON OBJECTIVES:

- Review procedures and maneuvers introduced in lesson 1, especially preflight activities, ground operations, and attitude control during basic maneuvers using visual reference(VR).
- Introduce additional maneuvers and procedures.
- Emphasis will be on correct procedures for preflight and ground operation.

PRE-FLIGHT DISCUSSION:

- Human factors concept
- Preflight activities
- Engine starting
- Airport runway, and taxiway signs, marking and lighting
- Ground operations, including crosswind taxiing
- Collision avoidance precautions
- Airspeed and configuration change

INTRODUCE:

- Use of checklists
- Airport, runway, and taxiway signs, markings and lighting
- Crosswind taxi
- Collision avoidance precaution
- Airspeed and configuration change
- Flight at approach speed
- Traffic pattern
- Descents in high and low drag configuration

REVIEW:

- Preflight inspection
- Certificates and documents
- Airworthiness requirements
- Operation of systems
- Positive exchange of flight controls
- Use of check lists
- Engine starting
- Radio communication
- Positive exchange of flight control
- Taxiing
- Before takeoff check
- Normal takeoff and climb
- Straight-and-level flight
- Climb, descend, and level offs
- Medium bank turn in both directions
- Normal approach and landing
- After landing, parking and securing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Flight maneuvers

- Display increased proficiency in preflight activities, ground operation, and coordinated airplane attitude control.
- Perform takeoffs with instructor assistance.
- Be familiar with control usage necessary to maintain altitude within ± 250 feet during airspeed change and configuration changes.
- Exhibit understanding of attitude control by visual reference(VR).

STAGE I

FLIGHT LESSON 3

Dual-Local (2.0)

Note: A view-limiting device is required for the 0.2 houres of dual instrument time allocated to Flight Lesson 3.

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Flight maneuvers

MANEUVERS VIDEO

Flight maneuvers

LESSON OBJECTIVES:

- Review airspeed control during basic maneuvers.
- Introduce stalls from various flight attitude to increase understanding of airplane control during normal and critical flight conditions..
- Introduce attitude control by instrument reference(IR).
- Emphasis will be directed to proper execution of the listed maneuvers and procedures, particularly takeoffs and landings.

PRE-FLIGHT DISCUSSION:

- Situational awareness
- Basic instrument maneuvers
- Preflight planning, operation of power plant, aircraft systems and engine runup procedures.
- Visual scanning and collision avoidance precautions
- Wind shear and wake turbulence avoidance procedure

INTRODUCE:

- Flight at various airspeed from cruise to slow flight
- Maneuvering during slow flight
- Power off stalls
- Power on stalls
- Straight-and-level flight (IR)

- Constant airspeed climb (IR)
- Constant speed descend (IR)

REVIEW:

- Use of checklists
- Airplane servicing
- Preflight inspection
- Airworthiness requirements
- Engine starting
- Radio communication
- Before takeoff check
- Normal takeoff and climb
- Straight-and-level flight
- Climb, descend, and level offs
- Medium bank turn in both directions
- Collision avoidance precaution
- Airspeed and configuration change
- Descents in high and low drag configuration
- Flight at approach speed
- Normal approach and landing
- Airport, runway, and taxiway signs, markings and lighting
- Parking and securing the airplane

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Flight maneuvers and emergency landing procedures

- Display increased proficiency in coordinated airplane attitude control during basic maneuvers.
- Perform unassisted takeoffs.
- Demonstrate correct communications. Landings completed with instructor
- Maintain altitude within ± 250 feet during airspeed transitions and while maneuvering at slow airspeed.
- Indicate basic ability to control attitude by instrument reference (IR).

STAGE I

FLIGHT LESSON 4

Dual-Local (2.0)

Note: A view-limiting device is required for the 0.2 hours of dual instrument time allocated to Flight Lesson 4.

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Flight maneuvers and emergency landing procedures

MANEUVERS VIDEO

Flight maneuvers and emergency landing procedures

LESSON OBJECTIVES:

- Practice maneuvers listed for review to gain additional proficiency and demonstrate the ability to recognize and recover from stalls.
- The student will also receive instruction and practice in the maneuvers and procedures listed for introduction, including emergency operations and additional practice of airplane control by the instrument reference (IR).
- Instructor may demonstrate secondary, accelerated, crossed-controlled, elevator trim stalls.
- Emphasis will be on procedure related to airport operations, steep turns, slow flight, stalls and stall recovery.

PRE-FLIGHT DISCUSSION:

- Wake turbulence avoidance
- Runway incursion avoidance
- Work load management
- Pilot-in-command responsibility
- Emergency procedure and equipment malfunctions
- Emergency field selection.

INTRODUCE:

- Systems And equipment malfunction
- Emergency procedures
- Emergency descent
- Emergency approach and landing (simulated)

- Emergency equipment and survival gear
- Climbing and descending turn(VR/IR)
- Steep turn
- Turn to heading(VR/IR)
- Flight at slow airspeed with realistic distraction, and the recognition and recovery from stalls entered from various attitude (straight/turn)
- Spin awareness
- Demonstrated stall (secondary, accelerated, crossed-controlled, elevator trim stall)

Note: The demonstrated stalls are not a proficiency requirement for private pilot certification. The purpose of the demonstration is to help the student learn how to recognize, prevent, and if necessary, recover before stall develops into a spin. These stalls should not be practiced without a qualified instructor. In addition, some stalls may be prohibited in some airplanes.

REVIEW:

- Airport, runway, and taxiway signs, markings and lighting
- Airspeed and configuration change
- Flight at approach speed
- Flight at various airspeed from cruise to slow flight
- Maneuvering during slow flight
- Power on stall
- Power off stall
- Normal takeoff and landing
- Collision avoidance precaution
- After landing, parking and securing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Ground reference maneuvers

- Display increased proficiency in coordinated airplane attitude control during basic maneuvers.
- Perform unassisted takeoffs.
- Demonstrate correct communications.
- Landings completed with instructor assistance.
- Demonstrate basic understanding of steep turns, slow flight, stalls, stall recovery and emergency operations.
- Complete demonstrated stalls.
- Indicate basic understanding of airplane control by use of flight instruments.

STAGE I

FLIGHT LESSON 5

Dual-Local (2.0)

Note: A view-limiting device is required for the 0.2 hours of dual instrument time allocated to Flight Lesson 5.

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Ground reference maneuvers

MANEUVERS VIDEO

Ground reference maneuvers

LESSON OBJECTIVES:

- Practice the review maneuvers to gain proficiency.
- Introduce ground reference maneuvers and maneuvering at slow airspeed by instrument reference.(IR).
- Emphasis will be on emergency landing procedure.

PRE-FLIGHT DISCUSSION:

- Situational awareness
- Realistic distraction
- Determining wind direction

INTRODUCE:

- Turns around a pint
- S-turns
- Rectangular course
- Maneuvering during slow flight (IR)

REVIEW:

- Positive exchange of flight control
- Maneuvering during slow flight
- Power off stalls
- Power on stalls
- Flight at slow airspeed with realistic distraction, and the recognition and recovery from stalls entered from various attitude (straight/turn)
- Spin awareness

- Emergency approach and landing (simulated)
- Emergency equipment and survival gear
- Normal takeoff and landing
- Turn to heading (VR/IR)

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Airport operations

- Display increased proficiency in coordinated airplane attitude control during basic maneuvers. Perform unassisted takeoffs.
- Demonstrate correct communications. Landings completed with a minimum of instructor assistance.
- Maintain altitude ±225 feet and heading ± 15°during atraightand-level flight.
- Demonstrate the ability to recognize and recover from stalls
- Indicate basic understanding of attitude instrument flying and simulated emergency landing procedure.

STAGE I

FLIGHT LESSON 6

Dual-Local (2.0)

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Airport operations

MANEUVERS VIDEO

Airport operations

LESSON OBJECTIVES:

- Practice the review maneuvers to gain proficiency.
- Introduce normal and crosswind takeoffs and landings, go around, no flap landing and slip.
- Review ground reference maneuvers.
- Emphasis will be on go-arounds and any of the more advanced maneuvers that appears to be difficult for the student.

PRE-FLIGHT DISCUSSION:

- Communication
- Workload management
- Lost communication procedure
- Runway incursion avoidance

INTRODUCE:

- Normal takeoffs and landings
- Go-arounds from a rejected landing
- Crosswind takeoffs and climbs
- Cross-wind approach and landings
- ATC light gun signals

REVIEW:

- Turns around a pint
- S-turns

- Rectangular course
- Normal takeoffs and landings
- Traffic patterns
- Wake turbulence avoidance
- Emergency descent
- Emergency approach and landing (simulated)

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Reference for Flight Lesson 1-6

- Display increased proficiency in coordinated airplane attitude control d.
- Demonstrate ability to Ify a specific ground trackwhile maintaining altitude ± 200 feet.
- Demonstrate basic undestanding of how the forward slip is used for an approach to landing.the ability to recognaize and recover from stalls
- Indicate knoulade of crosswind takeoffs/landing procedure and goarounds.

STAGE I

FLIGHT LESSON 7

Dual-Local (2.0)

Note: A view-limiting device is required for the 0.2 hours of dual instrument time allocated to Flight Lesson 7.

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

References for Flight Lesson 1-6

MANEUVERS VIDEO

References for Flight Lesson 1-6

LESSON OBJECTIVES:

- Practice instrument flight maneuvers, takeoffs, landings, and emergency procedure in preparation for solo flight.
- Review those maneuvers and procedures that appears to be difficult for the student.
- Emphasis will be on ground reference maneuvers and emergency operations.

PRE-FLIGHT DISCUSSION:

- Sections of FAR part 61 and 91 applicable to private pilots.
- Airspace rule and procedure for the airport where solo flight will be performed
- Flight characteristics and operational limitations for the make and model of aircraft to be flown in solo flight

REVIEW:

- Straight-and-level flight(VR/IR)
- Steep turns
- Constant airspeed climbs(VR/IR)
- Constant airspeed descents(VR/IR)
- Climbing and descending turns
- Turn to the headings(IR)
- Turns around a pint
- S-turns
- Rectangular course

- Cross wind takeoffs and climbs
- Crosswind approach and landings
- Go-around from a rejected landing
- Forward slip to landing
- Systems and equipment malfunctions
- Emergency procedures
- Emergency descent
- Emergency approach and landing
- ATC light gun signals

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

Prepare for the presolo written exam and briefing. The student will be provided with the exam questions in advance.

- Display increased proficiency and skill in instrument scan and interpretation during practice of instrument flight maneuvers.
- Takeoffs, landings, no flap l;anding,go-around and power off landing should be performed without instructor assistance.
- Emergency procedure should be accomplished with minimal assistance.
- Ground reference maneuvers should indicate increasing proficiency and precision.

STAGE I

FLIGHT LESSON 8

Dual-Local (1.0)

Note: A view-limiting device is required for the 0.2 hours of dual instrument time allocated to Flight Lesson 8.

LESSON OBJECTIVES:

- Prior to this flight, the instructor will administer and grade the presolo written exam and briefing.
- Practice the listed maneuvers and procedure including emergency operations and basic instrument maneuvers, to help the student gain proficiency and confidence.
- Emphasis will be directed toward correction of any faulty tendencies to prepare the student for the first solo.

PRE-FLIGHT DISCUSSION:

- presolo written exam critique
- Presolo flight training requirements

REVIEW:

- Operations of systems
- Preflight inspection
- Engine starting
- Radio communication
- Normal and crosswind taxiing
- Before takeoff check
- Normal and/or crosswind takeoff
- Climbing and descending turns
- Collision avoidance precautions
- Wake turbulence avoidance
- Straight-and-level flight(IR)
- Turn to the headings(IR)
- Maneuvering during slow flight(VR/IR)
- Power off stall
- Power on stall
- Maneuvering during slow flight
- Flight at slow airspeed with realistic distractions, and the recognition and recovery

- from stalls entered from straight flight and from turns.
- Spin awareness
- Steep turns
- Turns around a pint
- S-turns
- Rectangular course
- Systems and equipment malfunctions
- Emergency procedures
- Emergency descent
- Emergency approach and landing
- Traffic patterns
- Forward slip to landing
- Go-around from a rejected landing
- Normal and crosswind approach and landing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

Review any deficient areas based on the results of presolo written exam.

- This lesson is completed when the student successfully passes the presolo written exam with a minimum score of 80 % and the instructor has reviewed each incorrect response to ensure complete student understanding.
- Demonstrate the ability and readiness fro supervised solo flight in the traffic pattern.
- Exhibit understanding of attitude instrument flying.
- Indicate good understanding of local airport and airspace rules as well as systems and equipment malfunctions and related emergency procedure.

STAGE I

FLIGHT LESSON 9

Dual-Local (1.0) Stage Check

LESSON OBJECTIVES:

- The chief instructor, assistant chief instructor, or the designated check instructor will evaluate the student's proficiency to determine if he/she is prepared to depart the traffic pattern area on future solo flight.
- In addition, the student will be evaluated in all other maneuvers, procedures and knowledge areas appropriate to the first stage of the training syllabus.

PRE-FLIGHT DISCUSSION:

Conduct of the stage I check, including;

- Maneuvers
- Procedure
- Acceptable performance criteria
- Applicable rules

REVIEW:

- Operations of systems
- Minimum equipment list
- Engine starting
- Radio communication
- Taxiing
- Before takeoff check
- Normal and/or crosswind takeoff and climb
- Collision avoidance precautions
- Wake turbulence avoidance
- Maneuvering during slow flight
- Flight at slow airspeed with realistic distractions and the recognition and the
- recovery from the stalls entered from straight flight and from turns
- Spin awareness
- Power off stall
- Power on stall
- Systems and equipment malfunctions

- Emergency procedure
- Emergency descent
- Emergency approach and landing
- Traffic patterns
- Normal and/or crosswind approach and landings

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Performance takeoffs and landings

- This lesson and stage I are completed when the student can competently perform preflight duties and all other preocedures and maneuvers necessary fro the safe conduct of a solo flight in the traffic pattern and the local practice area. Altitudse will be maintained \pm 150 feet' headings \pm 15°, and airspeed \pm 10 kt.
- Additional instruction will be assined, if necessary, to ensure that the student meet the standard for advancing to Stage II.

STAGE I

FLIGHT LESSON 10

Dual-Local (0.5) Solo-Local (0.5)

LESSON OBJECTIVES:

- During the dual portion of the lesson, the instructor will review takeoff and landing procedures to check the student's readiness for solo flight.
 In the second portion of the lesson, the student will fly the first supervised solo flight in the local traffic pattern.
- Emphasis will be on the correct procedure and techniques for the student's solo.

PRE-FLIGHT DISCUSSION:

- Any student questions
- Student pilot supervised solo flight operations in the local traffic pattern

REVIEW:

- Engine starting
- Radio communication
- Normal and crosswind taxiing
- Before takeoff check
- Normal takeoffs
- Traffic patterns
- Go-around/Rejected landing
- Normal landings

INTRODUCE:

Supervised solo

- Radio communication
- Taxiing
- Before takeoff check
- Normal takeoffs and climbs (3)
- Traffic patterns
- Normal approaches and landings (3)After landing procedure
- Parking and securing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

- The student will display the ability to solo the training airplane safely in the traffic pattern. At no time will the safety of the flight be in question.
- Complete solo flight in the local traffic pattern as directed by the instructor.

STAGE II

STAGE OBJECTIVE

This stage allows the student to expand the skill learned in the previous stage. The student is introduced to short-field and soft-field takeoff and landing procedures, as well as night flying, which are important steps in preparation for cross country training. Additionally, grater emphasis is placed on attitude control by instrument reference to increase the student's overall competence. In the cross-country phase, the student will learn to plan and conduct cross-country flights using pilotage, dead reckoning, and radio navigation systems and how to safely conduct flight in the national airspace systems.

STAGE COMPLETION STANDARDS

This stage is completed when the student can accurately plan and conduct cross-country flights. In addition, the student will have the proficiency to safely demonstrate consistent results in performing short-field and soft-field takeoffs and landings and night operations. The proficiency level must be such that the successful and safe outcome of each task is never seriously doubt.

STAGE II

FLIGHT LESSON 11

Dual-Local (2.0)

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Performance takeoffs and landings

MANEUVERS VIDEO

Performance takeoffs and landings

LESSON OBJECTIVES:

- Learn the basic procedure for short-and soft-field takeoffs, climbs, approach and landings.
- Review ground reference maneuvers, slow flight and stall recognition as needed.
- Determine if the student is competent to fly the second supervised solo in the traffic pattern.
- Emphasis on short-field, soft-field takeoffs and landings.

PRE-FLIGHT DISCUSSION:

- Weight and balance computations
- Performance estimates
- Effect of high density altitude
- Aeronautical decision making
- Pilot-in-command responsibility.

INTRODUCE:

- Low-level wind shear precautions
- Short field takeoff and climb
- Soft field takeoff and climb
- Short field approach and landing
- Soft field approach and landing

REVIEW:

Turns around a point

- S-turns
- Rectangular course
- Maneuvering during slow flight
- Flight at slow airspeed with realistic distractions and the recognition and recovery from stalls entered from straight flight and from turns

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

Review, as required, in preparation for Flight Lesson 12, which is the second supervised solo flight in the traffic pattern.

- o The student will be able to explain runway conditions that necessitate the use of soft field and short field takeoff and landing techniques.
- Demonstrate the correct procedure to be used under existing or simulated conditions, although proficiency may not be at private pilot level.
- Ground track during the ground reference maneuvers will be accurate. Maintain altitude within ± 150 feet.

STAGE II

FLIGHT LESSON 12

Solo-Local (1.0)

Note: At instructor's prerogative, a portion of this lesson may be dual.

LESSON OBJECTIVES:

- The student will fly the second supervised solo in the local traffic pattern.
- Emphasize airport operations, including takeoff, traffic pattern, approach and landing procedures as well as collision avoidance and radio communications.

PRE-FLIGHT DISCUSSION:

Solo operations in the traffic pattern.

REVIEW:

Supervised solo

- Radio communication
- Taxiing
- Before takeoff check
- Normal takeoff and climb
- Traffic pattern
- Normal approach and landing
- After landing procedures
- Parking and securing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

Review, as required, in preparation for the first solo flight in local flying area.

- The student will perform each of the takeoffs using the correct techniques. Liftoff speed will not vary from the recommended speed by more than five kt.
- The landing approach will be stabilized and the approach speed will not vary more than five kt from the desired speed.
- Smooth landing touch downs at the correct speed within 300 feet of the desired touch down point.

STAGE II

FLIGHT LESSON 13

Solo-Local (1.0)

LESSON OBJECTIVES:

- Practice the listed maneuvers to gain proficiency and confidence.
- Review ground reference maneuvers to increase skill in a maintaining specific ground track.
- Practice other maneuvers as directed by the instructor.
- Emphasis on traffic pattern entry, exit, approach and landing procedure including use of stabilized approach.

REVIEW:

- Radio communication
- Normal takeoff and /or crosswind takeoffs and climb
- Power-off stall
- Power-on stall
- Maneuvering during slow flight
- S-Turn
- Turns around a point
- Traffic pattern
- Normal and/or crosswind approach and landing

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Attitude instrument flying

- This lesson is completed when the student has conducted the assigned solo flight.
- The student should attempt to gain proficiency in each of the assigned maneuvers and procedures.

STAGE II

FLIGHT LESSON 14

Dual-Local (2.0)

Note: A view-limiting device is required for the 0.5 hours of dual instrument time allocated to Flight Lesson 14.

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Attitude instrument flying

MANEUVERS VIDEO

Attitude instrument flying

LESSON OBJECTIVES:

- Practice the listed maneuvers to gain proficiency and confidence.
- Introduce airplane control by instrument reference during emergency situations to broaden the student's knowledge.
- Emphasis will be on the introduction of VOR and ADF orientation, tracking and homing as well as attitude instrument flying.

PRE-FLIGHT DISCUSSION:

- Basic instrument maneuvers including recovery from unusual attitude
- Radio communication, navigation systems/facilities and radar service
- Emergency descents and climbs
- Resource use
- Situational awareness
- Disorientation

INTRODUCE:

- VOR orientation and tracking (VR)
- ADF orientation and homing (VR)
- Power-off stall (IR)
- Power-on stall (IR)
- Recovery from unusual attitude
- Emergency descents and climbs using radio aids or radar directives (IR)

Use radio communication, navigation systems/facilities and radar service (IR)

REVIEW:

- Low level wind shear precautions
- Short field takeoffs and climbs
- Short field approaches and landings
- Power off stalls
- Power on stalls
- Maneuvering during slow flight (IR)

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

- Perform takeoffs and landings smoothly while maintaining good directional control. Approach will be stabilized and airspeed will be within five knots of that desired.
- Demonstrate basic understanding of VOR/ADF orientation, tracking and homing.
- Display the correct unusual attitude recovery techniques and be able to initiate emergency climb and descents by instrument reference using radio communications, VOR and radar service.

STAGE II

FLIGHT LESSON 15

Dual-Local Instrument (2.0)

Note: A view-limiting device is required for the 0.5 hours of dual instrument time allocated to Flight Lesson 15.

LESSON OBJECTIVES:

- Review attitude instrument flying including all instrument procedures intended to help a private pilot (without an instrument rating) avoid hazardous situations due to marginal VMC or inadvertent flight into IMC.
- Review short and soft field procedure and emergency operations.
- Emphasis will be on the attitude instrument flying.

PRE-FLIGHT DISCUSSION:

- Flight instrument functions, common errors and limitations
- Navigation instruments
- Inadvertent flight into IMC
- Operations in turbulence
- Partial panel
- Resource use

REVIEW:

- VOR orientation and tracking(VR/IR)
- ADF orientation and homing(VR/IR)
- Flight on federal airways
- Maneuvering during slow flight(IR)
- Power off stall(VR/IR)
- Power on stall(VR/IR)
- Emergency descent and climbs using radio aids or radar directives (IR)Using radio
- communication, navigation systems/ facilities and radar service(IR)
- Recovery from unusual attitude(IR)
- Low level wind shear precautions
- Short field takeoffs and landings
- Soft field takeoffs and landings
- Crosswind takeoffs and landings
- Forward slip to a landing

- Go-around
- Emergency operations

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Night operations

- Demonstrate competency in basic instrument maneuvers and procedures at the private pilot level including control of the airplane during unusual attitude recoveries and emergency climb and descents.
- Control altitude ± 150 feet during level turn, straight -level-flight and slow flight. Stall recovery should be coordinated with a minimum loss of altitude.
- Demonstrate increasing skill in short and soft field takeoff and landing procedures.
- Display the correct recovery technique s from stall and unusual attitude.
- Be able to initiate emergency climb and descent by instrument reference using radio communications, navigation facilities and radar service.

STAGE II

FLIGHT LESSON 16

Solo-Uncontrolled Airport within 25 NM (1.0)

LESSON OBJECTIVES:

- Practice the takeoffs and landings at an uncontrolled airport to gain proficiency and confidence in uncontrolled airport operation.
- Emphasis on traffic pattern entry, exit, approach and landing procedure including use of stabilized approach.

PRE-FLIGHT DISCUSSION

- Uncontrolled airport entry, traffic pattern and departure.
- Go-around
- Radio communications
- · Collision avoidance
- Weather condition

REVIEW:

- Uncontrolled airport entry, traffic pattern
- Radio communication.
- Normal and crosswind takeoff and landing
- Maneuvering during slow flight

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

PRIVATE PILOT MANEUVERS

Attitude instrument flying

- This lesson is completed when the student has conducted the assigned solo flight.
- The student should attempt to gain proficiency in each of the assigned maneuvers and procedures.

STAGE II

FLIGHT LESSON 17

Dual-Night Local (1.0)

LESSON REFERENCE:

PRIVATE PILOT MANEUVERS-

Night operations

MANEUVERS VIDEO

Night operations

LESSON OBJECTIVES:

- Introduce the special operational considerations associated with night flying.
- Practice night traffic pattern, approaches and landings.
- Stress importance of including instrument reference for maintaining attitude.
- Emphasize the physiological factors and additional planning associated with the night environment.

PRE-FLIGHT DISCUSSION:

- Preparation for night flying
- Night vision
- Disorientation
- Visual illusions
- Night scanning/collision avoidance
- Aircraft, airport and obstruction lighting
- Personal equipment

INTRODUCE:

- Aeromedical factors
- Flight planning considerations
- Use of checklists
- Preflight inspection
- Airworthiness requirements
- Taxiing
- Before takeoff check

- Power-off stalls
- Power-on stalls
- Steep turns
- Maneuvering during slow Flight
- Normal takeoffs and climbs
- Normal approaches and landings
- Short field takeoffs and landings
- Soft field takeoffs and landings
- Go around
- VFR navigations

STUDY ASSIGNMENT:

Review, as required, in preparation for the dual cross-country in Flight Lesson 18.

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

NOTE: The 10 night takeoffs and landings to a full stop with each involving flight in the traffic pattern are an FAR Part 141 requirement. Five are scheduled for Flight Lesson 17 and the other five for Flight Lesson 19. However, this requirement may be accomplished with fewer than five during a flight, as long as the total of 10 is completed

- Demonstrate an understanding of the importance of attitude control.
- Control altitude ± 150 feet during level turn, straight-and-level flight. Stall recovery should be coordinated with a minimum loss of altitude.
- Complete five takeoffs and landings to a full stop with each landing involving flight in the traffic pattern.
- All landing approaches should be stabilized with touchdown at a predetermined area on the runway.

STAGE II

FLIGHT LESSON 18

Dual-Cross-Country (2.0)

Note: A view-limiting device is required for the 0.5 hours of dual instrument time allocated to Flight Lesson 18.

LESSON OBJECTIVES:

- Introduce cross-country procedures and the proper techniques to be used during flight out of the local training area including use of VOR, ADF and radar service under simulated instrument flight condition.
- Prepare the student to make cross-country flights as the sole occupant of the airplane.
- Review instrument and emergency operations.
- Emphasize cross-country navigation procedures that include a point of landing at least a straight-line distance of more than 50 nautical mile from the original point of departure.

PRE-FLIGHT DISCUSSION:

Cross-Country Flight Planning

- Sectional chart
- Flight publications
- Route selection and basic navigation procedures (pilotage and dead reckoning)
- Weather information
- Fuel requirements
- Performance and limitations
- Navigation log
- FAA flight plan (how to file, open, close and amend)
- Weight and balance
- Cockpit management
- Aeromedical factors
- Aeronautical decision making
- Resource use
- Workload management
- Basic instrument maneuvers and procedures

INTRODUCE:

Cross-Country Flight

- Departure
- Opening flight plan
- Course interception
- Pilotage
- Dead reckoning
- VOR navigation
- ADF navigation
- Power setting and mixture control
- Actual ground speed computation
- Diversion to an alternate
- Lost procedure
- Estimate of ground speed and ETA
- Position fix by VOR
- Flight on federal airways
- Collision avoidance precautions
- Closing the flight plan

Instrument Flight

- VOR tracking (IR)
- ADF homing (IR)
- Use of radar service (IR)

Airport Operations

- National airspace system
- Controlled airport
- Use of ATIS
- Use of approach and departure control
- Go-around
- CTAF (FSS or UNICOM) airport

REVIEW:

- Emergency operations
- Systems and equipment malfunctions
- Emergency descent
- Runway incursion avoidance
- Emergency approach and landing
- Emergency equipment and survival gear

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

- Demonstrate the skill to perform crosscountry flight safely as the sole occupant of the airplane including use of VOR and radar service under simulated instrument condition.
- Include a point of landing at least a straight line distance of more than 50 nautical miles from the original point of departure.
- Demonstrate complete preflight planning, weather analysis, use of FAA publications and chart, adherence to the preflight plan and the use of pilotage, dead reckoning, radio communication and navigation systems.

STAGE II

FLIGHT LESSON 19

Dual-Night Cross-Country (2.0)

Note: A view-limiting device is required for the 0.5 hours of dual instrument time allocated to Flight Lesson 19.

LESSON OBJECTIVES:

- Introduce night navigation and emergency operations.
- Recognize the importance of thoughtful planning and accurate navigation.
- The flight should include a total distance of more than 100 nautical mile and a point
 of landing at least a straight-line distance of more than 50 nautical mile from
 original point of departure.
- Attitude instrument flying practice.
- Emphasize precise aircraft control and the navigation accuracy required for night VFR cross-country flight.

PRE-FLIGHT DISCUSSION:

- Night orientation, navigation and chart reading techniques
- Weather information
- Route selection
- Altitude selection
- Fuel requirements
- Departure and arrival procedures

INTRODUCE:

- Use of ATIS, approach and departure control
- Pilotage
- Dead reckoning
- Radio navigation (VR/IR)
- Emergency operation
- Use of unfamiliar airport
- Collision avoidance precaution
- Lost procedure
- Diversion to an alternate
- Unusual attitude recovery(IR)

REVIEW:

- Aeromedical factors
- Maneuvering during slow flight (VR/IR)
- Normal takeoffs and climbs
- Normal approaches and landings
- Short field takeoffs and landings
- Soft field takeoffs and landings
- Go-around

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

Review, as required in preparation for the stage II check in Flight Lesson 20.

- Demonstrate an understanding of night crosscountry preparation and flight procedure including ability to maintaining attitude by instrument reference.
- Navigation should be accurate and simulated emergency situation should be handled promptly utilizing proper instrument.
- Total distance of more than 100 nautical miles required.
- In addition, the flight must include a point of landing at least a straight-line distance of more than 50 nautical miles from the original point of departure.
- Complete 5 takeoffs and landings to a full stop with each involving flight in a traffic pattern.
- Landing approach stabilized with touchdown at or near the appropriate touchdown area on the runway.

STAGE II

FLIGHT LESSON 20

Dual-Local (1.5) Stage Check

LESSON OBJECTIVES:

- This stage check, conducted by the chief instructor, the assistant chief instructor or the designated check instructor, will evaluate the student's takeoff, landing, and stall recognition /recovery procedure to determine any area of weakness.
- Additionally, the student' ability to plan and conduct cross-country flights will be evaluated as well as safe and efficient operation of the aircraft during all other phases of flight in stage I and II of the private pilot training syllabus.

PRE-FLIGHT DISCUSSION:

Conduct Of The Stage II Check, Including;

- Maneuvers
- Procedures
- Acceptable performance criteria
- Applicable rules

REVIEW:

Preflight Preparation

- National airspace system
- Cross-country planning
- Weather information
- Cockpit management
- Use of checklists

Cross-country flight

- Departure
- Course interception
- VOR navigation
- Pilotage
- Dead reckoning
- Collision avoidance precautions
- Low level wind shear precautions
- Lost procedure

- Diversion to alternate
- Emergency operations
- Use of power setting and mixture control
- Soft field takeoffs and climbs
- Soft field landings
- Short field landings
- Shot field takeoffs and climbs
- Power off stalls
- Power on stalls

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

- Demonstrate the ability to plan and conduct cross-country flight using sound knowledge of flight planning, preflight action, weather analysis and the appropriate aeronautical publications.
- Exhibit the correct use of three method of navigation, ability to correctly determine location at any time, the ability to compute ETAs within 10 min. and correct technique for establishing a course to an alternate airport.
- Demonstrate short field and soft field takeoffs and landings safely with consistent result.
- The student should be proficient in all other maneuvers and procedure as well as the associated knowledge area of stage I and II prior to advancing to stageIII.

PRIVATE PILOT SYLLABUS	
STAGE III	
STAGE OBJECTIVES	
During this stage, the student will gain additional proficiency in solo cross-country operations and will receive instruction in preparation for the end-of-course stage check.	
STAGE COMPLETION STANDARDS	
This stage will be complete when the student demonstrates performance of private pilot operations at a standard that meets or exceeds the minimum performance criteria established in the practical test standards for a private pilot certificate.	

STAGEII

FLIGHT LESSON 21

Solo-Cross-Country (2.0)

LESSON OBJECTIVES:

- Use previous experience and training to complete solo cross country.
- Increase proficiency and confidence.
- The flight should include a point of landing that is at least a straight-line distance of more than 50 nautical miles from the original point of departure.
- Emphasize planning and following the plan, including alternative.

PRE-FLIGHT DISCUSSION:

- Review the solo cross0country briefing
- Required documents and endorsements
- Basic VFR weather minimum and airspace rules
- Enroute communication
- ATC service available to the pilot
- Enroute weather information
- VFR position report
- Emergency operations
- Lost procedures
- Diversion
- Lost communication procedures
- ATC light signals
- Aeronautical decision making
- Resource use
- Workload management

REVIEW:

Preflight Preparation

- Sectional charts
- Flight publications
- Route selection
- Weather information
- Fuel requirements
- Performance and limitations

- Weight and balance
- Navigation log
- FAA flight plan
- Aeromedical factor

Cross Country Flight

- Opening the flight plan
- VOR and ADF navigation
- Position fix by navigation facilities
- Pilotage
- Dead reckoning
- Use of unfamiliar airport
- Estimates of ground speed
- Estimates of ETA
- Closing the flight plan

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

- Demonstrate accurate planning and conduct of a VFR cross-country flight using the three methods of navigation.
- During the post evaluation, the student will exhibit an understanding of unfamiliar airport operations.
- At least one landing more than 50 n.m. From the departure airport.

STAGE III

FLIGHT LESSON 22

Solo-Cross-Country (3.0)

LESSON OBJECTIVES:

- During this lesson, the student will complete the long cross-country requirement.
- The flight should be of at least 150 nautical miles, total distance, with landings at a minimum of three points, including a straight-line segment at least 50 nautical miles between takeoff and landing location.
- Emphasize will be on cross-country procedures.

PRE-FLIGHT DISCUSSION:

- Conduct of the planned flight\
- Cockpit management, decision making, and judgment
- FAA flight plan(how to open, close, or amend)
- Use of a magnetic compass
- Emergency descend procedures
- Emergency operations
- En route communication and facilities
- In-flight weather analysis
- Unfamiliar airport operations

REVIEW:

Preflight Preparation

- National airspace system
- Sectional charts
- Flight publication
- Route selection
- Weather information
- Fuel requirements
- Performance and limitations
- Weight and balance
- Navigation log

FAA flight plan

Cross-Country Flight

- Opening and closing the flight plan
- VOR navigation
- Pilotage
- Dead reckoning
- Estimate of ground speed
- Estimate of ETA
- Use of controlled airport
- Use of airport with CTAF(FSS and/or UNICOM)

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

- Demonstrate crosscountry proficiency by completing the flight as planned and without incident.
- Review the completed navigation log during the post flight evaluation to determine whether it was completed and used correctly.
- The cross-country must include a distance of over 150 nautical miles with landings at a minimum of three points, including a straight-line segment at least 50 nautical miles between takeoff and landing location.

STAGE III

FLIGHT LESSON 23

Dual-Local (2.0)

LESSON OBJECTIVES:

- Review the area of operation including specified maneuvers and procedures determined by the instructor to increase proficiency to the level required of a private pilot.
- Further develop the student's knowledge and skill in preparation for private pilot practical test.
- Emphasis will be on correction of any deficient skill or knowledge area.

PRE-FLIGHT DISCUSSION:

• Maneuvers and procedures in preparation for the stage III check, end-of-course flight check and FAA practical test, including spin awareness and night operations.

REVIEW:

- Preflight preparation
- Ground operation
- Maneuvering during slow flight (VR/IR)
- Power off stalls and Power on stalls (FR/IR)
- Steep turns
- Ground reference maneuvers
- Emergency descents and climbs using radio aids or radar directives (IR)
- Using radio communication, navigation systems/facilities and radar service(IR)
- Unusual attitude Recovery (IR)
- Airport operations
- Normal and crosswind takeoff and landing
- Go-around from a rejected landing
- Shot field takeoff and landings
- Soft field takeoffs and landing
- Forward slip to landing
- Emergency operations
- Parking and securing the airplane
- Cross-country flight procedures
- Specific maneuvers and procedures assigned by the flight instructor

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

COMPLETION STANDARDS:

• The student will exhibit progress and acceptable proficiency by performing each assigned maneuvers smoothly and with proper coordination and precision according to the criteria established in the private pilot practical test standard

STAGE III

FLIGHT LESSON 24

Solo-Local (1.5)

LESSON OBJECTIVES:

- The student will review flight maneuvers and procedures specified by the instructor to increase proficiency to the level required of a private pilot.
- Further develop the student's knowledge and skill in preparation for private pilot practical test.
- Emphasis will be on correction of any deficient skill or knowledge area.

REVIEW:

- Ground operations
- Takeoffs and climbs
- S-turns
- Turns around a pint
- Steep turns
- Maneuvering during slow flight
- Power-off stalls
- Power-on stalls
- Short-field takeoffs and landings
- Soft-field takeoffs and landings
- Forward slip to landing
- Specific maneuvers or procedures assigned by the flight instructor

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

COMPLETION STANDARDS:

• The student will attempt to gain proficiency by performing each assigned maneuvers smoothly and with proper coordination and precision according to the criteria established by the private pilot practical test standards.

STAGE III

FLIGHT LESSON 25

Dual-Local (1.5) Stage check

LESSON OBJECTIVES:

- This stage check, conducted by the chief instructor, assistant chief instructor or the designated check airman, will evaluate the student ability to perform the listed maneuvers at the proficiency level of a private pilot.
- Additionally, the student's ability to plan and conduct cross-country flights safely will be evaluated, as well as safe and effective operation of the aircraft during all other phases of flight in Stage III of the private pilot flight training syllabus.

PRE-FLIGHT DISCUSSION:

Conduct Of The Stage III Check, Including;

- Maneuvers
- Procedures
- Acceptable performance criteria
- Applicable rules
- Human factor concepts

REVIEW:

Maneuvers And Procedures

- Ground operations
- Takeoffs and landings
- S-turns
- Turns around a point
- Power-off stalls (VR/IR)
- Power-on stalls (VR/IR)
- Maneuvering during slow flight (VR/IR)
- Emergency descents and climbs using radio aids or radar directives (IR)
- Unusual attitude recovery (IR)
- Shot-field takeoffs and landings
- Forward slip to landings
- Go-around
- Emergency operations

- After landing procedures
- Parking and securing the airplane

Cross-Country Flight

- Radio navigation
- Pilotage and read reckoning
- Diversion to the alternate
- Lost procedure

POSTFLIGHT DISCUSSION AND PREVIEW OF NEXT LESSON

STUDY ASSIGNMENT:

Private pilot practical test briefing in preparation for the end-of-course check and the FAA practical test.

- Each maneuvers and procedures should be performed at the proficiency level of a private pilot
- Mastery of the airplane should be evident and the successful outcome of each task performed should be expected.
- Any maneuvers or procedures which do not meet this standard should be reviewed with the student and assigned additional practice.
- Student should exhibit a sound understanding of the knowledge, skill and proficiency requirements for private pilot certification
- Demonstrate the ability to plan and conduct cross-country flights using sound knowledge of flight planning, preflight action, weather analysis and the appropriate aeronautical publications.