



The Complete Private Pilot Syllabus Sixth Edition



The Complete Private Pilot Syllabus **Sixth Edition**

Flight and Ground Training
Private Pilot Certification Course: Airplane

Meets 14 CFR Part 141 and Part 61 Requirements
Includes Sport Pilot Certification Course: Airplane



Aviation Supplies and Academics, Inc.
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The Complete Private Pilot Syllabus
Sixth Edition

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This syllabus is designed to be used with the textbook,
The Complete Private Pilot, by Bob Gardner.

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Visit the ASA website often, as any updates due to FAA regulatory
and procedural changes will be posted there: **www.asa2fly.com**

Reader Resources are available for *The Complete Private Pilot* here:
www.asa2fly.com/reader/ppt

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Student Information

Name _____
Last First Middle

Address _____
Street (If mailing address is P.O. Box, please list both.)

_____ *City State Zip Country*

Phone _____
Home Business Other

Email _____

Emergency Contact _____
Name Phone

Private Pilot course enrollment _____ *Date* Sport Pilot course enrollment _____ *Date*

Enrollment notice to FAA (Part 141) _____ *Date*

Student Pilot Certificate: *Issue Date* _____

Medical Certificate: *Issue Date* _____ *Class* _____

Previous School _____

Training credit transfer _____ *Flight* _____ *Ground*

Record of Aircraft Checkouts

<i>Date</i>	<i>Make/Model</i>	<i>Instructor Signature</i>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks _____

Record of Course Completion

Private Pilot/Sport Pilot FAA Knowledge Examination _____ *Date* _____ *Score*

Graduation Certificate _____ *Date Issued*

Private Pilot/Sport Pilot FAA Practical Test _____ *Date* _____ *Results*

Introduction

The Complete Private Pilot Syllabus is designed to work with *The Complete Private Pilot* (Twelfth Edition) by Bob Gardner. This textbook can be used in the ground training sessions outlined in Stages 1-3. In addition, recommended readings from ASA's *Private Pilot Test Prep* are given for the ground training sessions.

Enrollment Prerequisites

The student must be able to read, speak, write, and understand the English language and meet the physical standards for a third-class medical certificate prior to enrollment, and must possess a valid student pilot certificate and a third-class medical certificate (or higher) prior to completion of Flight Lesson 8, Stage 1. Students must be 16 years old to solo, and 17 years old to earn a private pilot certificate.

Training Course Objectives

The student will obtain the aeronautical skill and experience necessary to meet the requirements of a **private pilot** certificate with an **airplane** category and **single-engine land** class rating, and the aeronautical knowledge necessary to pass the FAA Knowledge Exam.

Course Completion Standards

The student will demonstrate through flight tests, written tests, and school records the necessary aeronautical skill, knowledge, and experience to pass the FAA Private Pilot Knowledge Exam and obtain a **private pilot** certificate with an **airplane** category and a **single-engine land** class rating. Each Task under each Area of Operation in the *Private Pilot Airman Certification Standards* will have been accomplished by the student.

The instructor will not sign off any Task until the student is able to explain and/or demonstrate the elements of the procedure or maneuver as required by the Airman Certification Standards.

Training Syllabus

The 35.0 hours of flight training and 35.0 hours of ground training, as required by 14 CFR Part 141 (40.0 hours of flight training and no minimum time for ground training is specified for Part 61 programs) will be accomplished in three stages. Each of these instructional units is described in the following pages. The aeronautical experience must include 35.0 hours in an airplane; however, a ground training device acceptable to the Administrator of the Federal Aviation Administration may be substituted for 20 percent of the required time if the ground trainer complies with 14 CFR Part 141.41(a), and may be substituted for 15 percent of the required time if the ground trainer complies with 14 CFR Part 141.41(b). A Basic Aviation Training Device (Basic ATD) may be used for 2.5 hours of the required time.

Hours shown for each lesson for flight training, preflight briefing, and post-flight critique are offered as a guide to the instructor. Specified minimum times for an entire stage must be complied with, but time used for an individual lesson may be adjusted to the student's needs. The instructor is responsible for ensuring all requirements are met.

At points where normal student progress should meet the requirements of the Airman Certification Standards for a Task included in an Area of Operation, the Area of Operation and Task are listed under Completion Standards; however, it is not mandatory that the instructor sign off the Task in order for the lesson to be considered complete.

Private Pilot Course Hours

This syllabus complies with 14 CFR Part 141 requirements. To follow a Part 61 curriculum, add 5 hours of solo flight time, for a total of 40 hours. Part 61 requires 10 hours of solo time, including 5 hours of solo cross-country (with the long cross-country being 150 NM).

Ground instruction for Flight Lessons include preflight briefings and post-flight critiques.

14 CFR Part 141 requires 20 hours of dual flight, 5 hours of solo flight, and a total of 35 hours flight time for the Private Pilot Certificate. Those flights tagged with an asterisk () indicate the flights which may be conducted either Dual or Solo, at the instructor's discretion.

Flight	Dual Flight	Solo Flight	Dual X/C	Solo X/C	Dual Night	Solo Night	Instrument Instruction	Ground Instruction
Stage 1								
Flight 1	1.0							1.0
Ground 1								1.5
Flight 2	1.0							0.5
Flight 3	1.0						0.25	0.5
Ground 2								1.5
Flight 4	1.0						0.25	0.5
Flight 5	1.0						0.25	0.5
Ground 3								1.5
Flight 6	1.0							0.5
Flight 7	1.0						0.25	0.5 + Pre-Solo Exam
Ground 4								1.5 + Stage 1 Exam
Flight 8	0.5	0.5						0.5
Flight 9 Stage Check	1.0						0.25	0.5
Stage 2								
Ground 5								1.5
Flight 10	1.5						0.25	0.5
Flight 11	0.5	0.5						0.5
Ground 6								1.5
Flight 12		1.0*						0.5
Flight 13		1.5						0.5
Ground 7								1.5
Flight 14		1.0*						0.5
Flight 15	1.0						0.25	0.5

Flight	Dual Flight	Solo Flight	Dual X/C	Solo X/C	Dual Night	Solo Night	Instrument Instruction	Ground Instruction
Stage 2	(cont.)							
Ground 8								1.5
Flight 16	1.0		1.0				0.25	1.0
Flight 17	2.0		2.0		2.0 (includes 5 TOL)			1.0
Ground 9								1.5+ Stage 2 Exam
Flight 18		2.5		2.5 (>100 NM, 3 TOL at towered airport)				1.0
Flight 19 Stage Check	1.0				1.0 (includes 5 TOL)		0.25	0.5
Stage 3								
Ground 10								1.5
Flight 20		3.0*		3.0*				1.0
Flight 21		4.0*		4.0*				1.0
Ground 11								1.5
Flight 22	1.5						0.25	0.5
Flight 23		1.0*						1.0
Ground 12								1.5 + Stage 3 Exam + Final Exam
Flight 24 Stage Check	1.5						0.25	1.0
Flight 25	1.5						0.25	1.0
Totals 40 hrs (Part 61) 35 hrs (Part 141)	20.0 † +10* optional	5.0 * +10* optional	3.0	2.5 ◇	3.0 ≠		3.0	35.0

† Includes 3 hours prep for checkride.

• Part 61 programs require 10 hours of solo flight.

◇ Including 1 X/C more than 100 NM, 3 points for Part 141 programs. Part 61 programs require 5.0 hours solo X/C, with the long flight being 150 NM.

≠ Including 1 X/C of more than 100 NM and 10 takeoffs and landings (TOL).

Stage 1: Solo Flight

Flight Training

8.5 Hours Dual (1.25 Hours Instrument)
0.5 Hour Solo

Objectives

The student will be instructed in all the basic flying procedures and skills necessary for the first solo flight.

Completion Standards

The Stage will be completed when the student satisfactorily passes the Stage 1 check and is able to conduct solo flights.

Ground Training

11.0 Hours
Pre-Solo Exam
Stage 1 Exam

Objective

In Stage 1 the student will be introduced to a typical general aviation airplane, learn the airplane's parts and how it is constructed. The student will learn the basics of aerodynamics, will be introduced to airplane engines and instruments, will learn how to perform weight and balance calculations, and how to use handbook information to predict aircraft performance.

Completion Standards

Stage 1 will be complete when the student has taken the Stage 1 written examination and has achieved a minimum passing score of 80 percent. The instructor will discuss and resolve all incorrect answers with the student before going on to Stage 2.

Flight Lesson 1

Dual 1.0 Hour

Pre/Postflight 1.0 Hour

Objectives

The student will be familiarized with the aircraft, its operating characteristics, cabin controls, instruments, systems, preflight procedures, use of checklists, and safety precautions. The student will practice climbs, straight-and-level flight, turns, and descents.

Content

1. Preflight discussion
2. Preflight inspection
 - a. Aircraft status—maintenance writeups, etc.
 - b. Aircraft and engine logbooks, inspection status
 - c. External inspection
 - d. Servicing procedures—fuel grade, oil type and quantity
 - e. Ground handling and safety; propeller cautions
 - f. Required documents—AROW
 - g. Placards and limitation markings
 - h. Seat adjustment and check of locking mechanism
 - i. Hobbs meter/tachometer entries
 - j. Stowage of tow bar, etc.
 - k. All doors and hatches secured
3. Introduction
 - a. Risk Management discussion: positive aircraft control, positive exchange of flight controls, stall/spin awareness, collision avoidance, wake turbulence avoidance, LAHSO, runway incursion avoidance, controlled flight into terrain, aeronautical decision making, checklist usage
 - b. Starting and taxiing
 - c. Runup; significance of items checked
 - d. Takeoff, pattern departure, and initial climb
 - e. Level off; straight-and-level flight; trim
 - f. Medium banked turns
 - g. Descents
 - h. Traffic pattern entry, approach and landing
 - i. Radio communication; microphone use
 - j. Climbing turns (VR and IR)
 - (1) Left-turning tendency; torque factors
 - (2) Relate 10° bank (IR) to natural horizon
 - (3) Rudder use for entry and recovery from banked flight
4. Fill out enrollment certificate. *See Page Appendix–7.*
5. Postflight critique and preview of next lesson

Completion Standards

The student will be able to maintain straight-and-level flight with a tolerance of ± 200 feet in altitude and $\pm 20^\circ$ in heading, to perform climbs, descents, turn entries and turn recoveries with proper rudder use (1/2 ball width), and to explain proper control use for straight-and-level flight, turns, climbs, and descents. The student will understand and be able to explain pitch, bank, and airspeed limits.

Date of completion _____ Time flown _____

Instructor signature _____ Student initials _____

Ground Lesson 1

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lesson 1

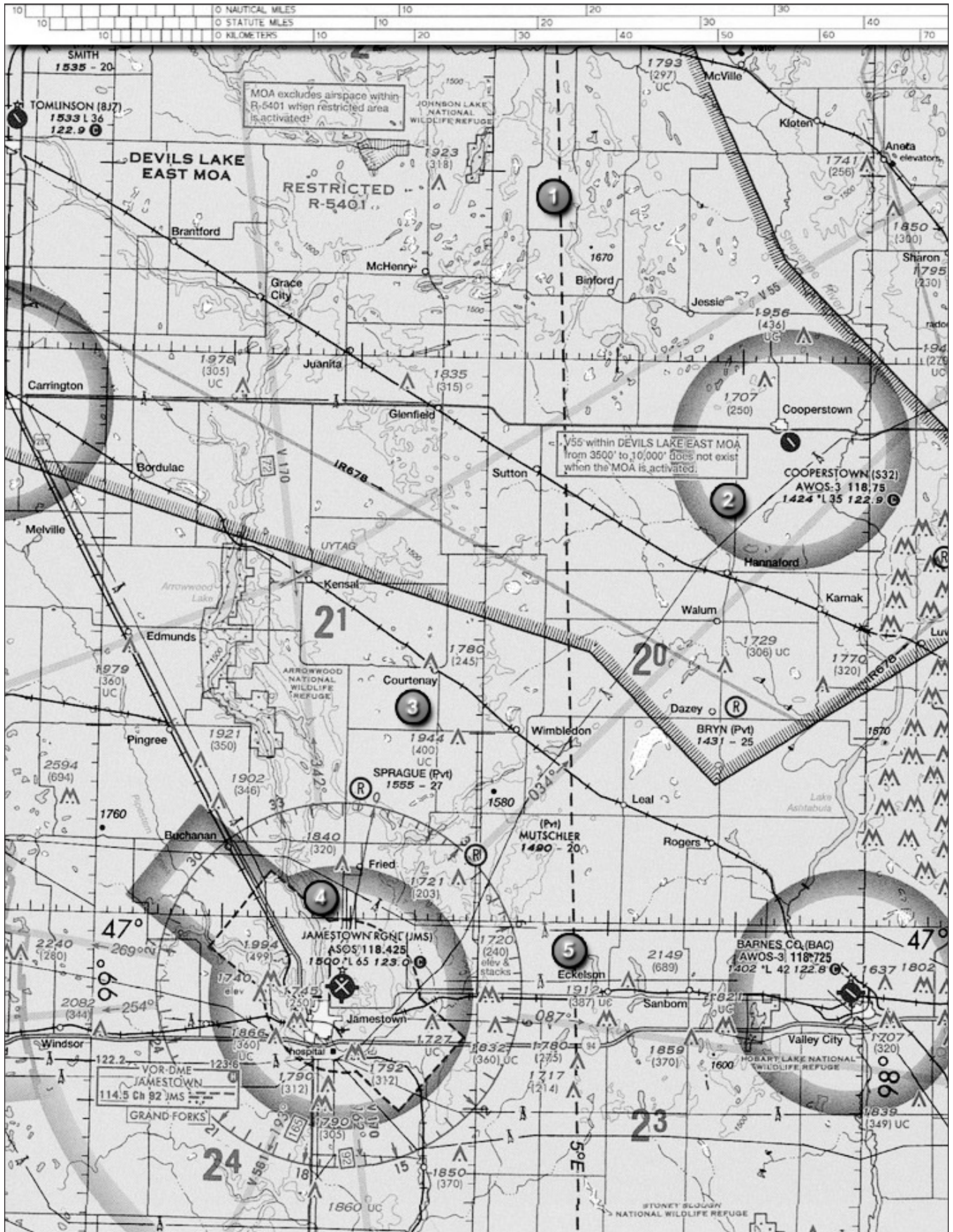
Lesson Content

Fuselage construction
Airplane components
Lift development; components of the lift equation
Lift, thrust, and drag
Axes of rotation; center of lift vs. center of gravity
Control effects
Stability, longitudinal and lateral
Turn dynamics
Stalls and spins
Glide ratio
Energy management

Date of completion _____ Lesson time _____

Instructor signature _____ Student initials _____

Recommended Reading: *Private Pilot Test Prep*, Chapter 1



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The Complete Private Pilot Syllabus **Sixth Edition**

The *Complete Private Pilot Syllabus* offers an integrated flight and ground training curriculum, meeting all experience and knowledge requirements for Parts 61 and 141 programs. Used in conjunction with Bob Gardner's *Complete Private Pilot* textbook, the syllabus will take the student from start to finish in an efficient and logical manner, with the ultimate goal of achieving Private Pilot Airplane certification. Stage Exams included.

The Complete Pilot Series can be used for home study, certified flight schools, or as a base for student kits.

Textbooks

The Complete Private Pilot
The Complete Multi-Engine Pilot
The Complete Advanced Pilot
The Complete Remote Pilot



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