

THE COMPLETE PRIVATE PILOT

SYLLABUS

SEVENTH EDITION



THE COMPLETE PRIVATE PILOT

SYLLABUS SEVENTH 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



The Complete Private Pilot Syllabus Seventh Edition

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

Visit the ASA website often, as any updates due to FAA regulatory and procedural changes will be posted there: www.asa2fty.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					
	Street (If mailing	address is P.O. Box	x, please list both.)			
City		,	State	Zip	Country	
•				1	,	
1 11011C _	Ноте		Business		Other	
Email _						
Emerge	ncy Contact			Phone		
	Nai	me		rnone		
Private	Pilot course enro	ollment		Sport Pilot	t course enrollment _	
			Date			Date
Enrollm	ent notice to FA	A (Part 141) _	Date			
G. 1		I D .				
Student	Pilot Certificate	: Issue Date _				
Medical	Certificate: Issu	ıe Date			Class	
Previou	s School					
Training	g credit transfer	Flight		Ground	\overline{d}	
FAASat	fety.gov WINGS	Program				
	3 &	c	Login		Password	
Record	d of Aircraft C	heckouts				
Date		Make/Model		Instructor Sign	nature	
Remark	S					
Record	d of Course C	ompletion				
		=	lge Examination	n		
	•			Do	ate	Score
Graduat	tion Certificate _					
Private	Pilot/Sport Pilot	FAA Practical	Test	Date		Results
				Luic		

INTRODUCTION

The Complete Private Pilot Syllabus is designed to work with The Complete Private Pilot (Thirteenth 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. Students are also encouraged to sign up for the WINGS Pilot Proficiency Program at FAASafety.gov to assist with ongoing training proficiency and improve your skills and knowledge as a pilot.

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.
- \neq 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.

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

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.

Instructor signature	Student initials

Date of completion _____ Time flown _____

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

Dual 1.0 Hour Pre/Postflight 0.5 Hour

Objectives

The student will review the maneuvers covered in Lesson 1. The instructor will introduce climbing turns, slow flight, power-off stalls, and steep turns, as exercises in coordination.

Content

- 1. Preflight discussion
- 2. Starting and taxiing
 - a. Use of checklist
 - b. Engine start (discuss priming and flooded starts)
 - c. Runup and pre-takeoff checklist. Student explains each action
- 3. Takeoff and departure; initial climb
 - a. Application of power; rudder use
 - b. Takeoff trim; elevator use and takeoff attitude
 - c. Clearing turns while climbing
- 4. Straight-and-level flight
 - a. Attitude, power setting and airspeed
 - b. Use of trim
 - c. Speed changes in level flight
- 5. Climbing turns (VR and IR)
 - a. Use of attitude indicator banking scale vs. natural horizon
 - b. Pitch and power coordination during entry
 - c. Rudder use in left vs. right turns
 - d. Pitch and power coordination during recovery
- 6. Slow flight
 - a. Pitch and power relationship
 - b. Use of flaps and flap limit speeds
 - c. Loss of visibility at high pitch attitudes
 - d. Recovery to cruise flight
 - e. Power curve—lift vs. drag
- 7. Power-off stalls
 - a. Clearing turns
 - b. Recovery without power
 - c. Recovery with power
 - d. Effect of flaps on indicated stall speed
- 8. Steep turns
 - a. Use of elevator and power
 - b. Overbanking tendency
- 9. Approach and landing
- 10. Postflight critique and preview of next lesson

The student will be able to use checklists, start the engine, taxi, and perform the preflight runup without assistance; take off and climb at the recommended climb speed ±10 knots; maintain level flight within ±150 feet of altitude and $\pm 15^{\circ}$ of heading; perform coordinated climbing turn entries and recoveries to the same tolerances; and recognize and recover from power-off stalls with or without power.

Airman Certification Standards

Preflight Preparation

Pilot Qualifications Airworthiness Requirements

Preflight Procedures

Preflight Assessment Flight Deck Management

Postflight Procedures

After Landing, Parking and Securing

Date of completion _	Time flown		
		C4-14:-4:-1-	
Instructor signature _		Student initials	

Dual 1.0 Hour (0.25 Hour Instrument) Pre/Postflight 0.5 Hour

Objectives

The student will demonstrate proficiency in the four basic maneuvers and perform, without assistance, slow flight, power-off stalls, and steep turns. The student will further explore the full regime of flight through the introduction of slips, use of flaps, and climbs and descents with various combinations of pitch, power, airspeed, and flap extension. The student will assume pilot-in-command responsibility for preflight, taxi, and runup operation.

Content

- 1. Preflight discussion
- 2. Review and practice
 - a. Takeoff, departure, climb, and climbing turns (VR and IR)
 - b. Level off and straight-and-level flight (VR and IR)
 - c. Medium banked turns (VR and IR)
 - d. Traffic pattern, approach and landing
- 3. Introduction
 - a. Slips
 - (1) Bank angle vs. rudder pressure in cruise and slow flight
 - (2) Sideslips and forward slips
 - (3) Slipping as a steep approach technique
 - b. Flap use (VR and IR)
 - (1) Flap extension in slow flight at constant altitude and airspeed
 - (2) Flap extension in slow flight at constant altitude and power
 - (3) Flap extension in transitioning from cruise to slow flight
 - (4) Loss of lift due to flap retraction
 - (5) Simulated go-around from landing configuration
 - c. Climbs and descents (VR and IR)
 - (1) Constant airspeed climb by increasing power
 - (2) Constant power climb with reduced airspeed
 - (3) Constant airspeed descent by reducing power
 - (4) Constant power descent with increasing airspeed
 - (5) Constant rate, constant airspeed climb
 - (6) Constant rate, constant airspeed descent
 - (7) Power-off descent at best glide speed
 - d. Slow flight (VR and IR)
 - (1) Slowing to approach speed
 - (2) Pitch and power relationship
 - (3) Maneuvering during slow flight and the region of reversed command
 - (4) Turn rate vs. bank angle at low airspeeds
 - (5) Control effectiveness and feel
 - (6) Adverse aileron drag and yaw

- e. Power-off stalls (VR and IR)
 - (1) Straight ahead—recognition and recovery
 - (2) Turning—recognition and recovery
 - (3) Emphasis on changing elevator deflection and pressure needed to maintain pitch attitude prior to stall and relation to landing attitude
- f. Approach and traffic pattern
 - (1) Visual scanning pattern for collision avoidance
 - (2) Speed adjustment for spacing from other traffic
 - (3) Relation of pattern to runway and wind
 - (4) Key position and consistency of airspeed and altitude
 - (5) Power adjustment and flap use
 - (6) Visual clues for beginning the flare
 - (7) Touchdown attitude
- 4. Postflight critique and preview of next lesson

The student will perform all maneuvers from previous lessons with tolerances of ± 150 feet in altitude, $\pm 15^{\circ}$ in heading, ±5 knots in airspeed with 1/2-ball-width maximum deflection. Climbs, descents, and slips will be accomplished within ± 10 knots, ± 200 FPM, $\pm 20^{\circ}$ in the various configuration, with student anticipation of pitch changes and/or pressures necessary to prevent unnecessary pitch variations. The student will promptly trim off all unnecessary control pressures, and demonstrate prompt decision-making when required.

Airman Certification Standards

Preflight Procedures

Engine Starting Taxiing Before Takeoff Check

Takeoffs, Landings, and Go-Arounds

Normal Takeoff and Climb

Date of completion	 Time flown _		
Instructor signature		Student initials	

Ground Lesson 2

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lessons 2 and 3

Lesson Content

The 4-cycle engine

Ignition

Induction systems

Fuel systems

Mixture control

Fuel grade and contamination

Preignition and detonation

Engine instrumentation

Electrical and vacuum systems

Propellers

Turbocharging

Pressurization

Autopilots, FADEC

Rotax engines

Pitot-static instruments

Gyroscopic instruments

Magnetic compass

Flight directors

Glass cockpit

Date of completion	_Lesson time _	
Instructor signature		Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 2

Dual 1.0 Hour (0.25 Hour Instrument) Pre/Postflight 0.5 Hour

Objectives

During this lesson the student will further explore the limits of airplane performance, with the added complexity of left-turning tendency, G-loading and various flap configurations. The student will transition naturally into these maneuvers from the review of previously learned maneuvers: slow flight is pursued beyond its limit into power-on stalls; steep turns and slow flight are combined to produce accelerated stalls; glides, speed changes, and flap extension are combined, as on an approach, until an approach-to-landing stall develops. This lesson will emphasize not only recognition and recovery from stalls but also the situations which lead to inadvertent stalls. Power-off glides will be reviewed, with engine failure emergency procedures introduced. Wind effects will be investigated through the introduction of crosswind/downwind taxi techniques and elementary ground reference maneuvers.

Content

- 1. Preflight discussion
- 2. Review and practice
 - a. Takeoff, departure, climbing turns (VR and IR)
 - b. Level off and straight-and-level flight (VR and IR)
 - c. Medium turns (VR and IR)
 - d. Maneuvering during slow flight (VR and IR)
 - e. Slips and descents
 - f. Traffic pattern, approach, and landing
- 3. Introduction
 - a. Taxiing with crosswind/tailwind
 - (1) Control use
 - (2) Speed control and brake use
 - (3) Weathervaning in turns
 - b. Power-on stalls
 - (1) Turning tendency
 - (2) Rudder use
 - (3) Control effectiveness
 - (4) Adverse yaw
 - (5) Rolling tendency
 - (6) Attitude and directional control
 - (7) Attitude and elevator force for recovery; overpowering trim if required
 - c. Accelerated stalls (VR and IR)
 - (1) G-loading vs. stall speed
 - (2) Turning stalls
 - (3) Secondary stalls
 - d. Approach-to-landing stalls
 - (1) Simulate traffic pattern
 - (2) Straight ahead
 - (3) Turning
 - (4) Effect of flaps

Continued

- e. Elementary forced landings
 - (1) Best glide speed
 - (2) Trim
 - (3) Selection of landing site
 - (4) Troubleshooting; restarting engine
 - (5) Communications
 - (6) Shut down procedures
- f. Ground reference maneuvers
 - (1) Tracking a straight line
 - (2) Rectangular course
 - (3) Tracking a runway—forward slip method
- g. Collision avoidance
 - (1) Outside cockpit vision
 - (2) Scanning patterns
 - (3) Aircraft lighting
 - (4) Right-of-way rules
- 4. Postflight critique and preview of next lesson

Successful completion requires the student to perform all maneuvers from previous lessons without assistance. The student will recognize and promptly recover from the newly introduced stalls, without assistance or loss of control. The student should begin anticipating and making corrections for the effect of wind on the aircraft's ground track and understand basic emergency procedures. Altitude, airspeed, and heading tolerances remain in force.

Airman Certification Standards

Preflight Preparation

Operation of Systems

Airport Operations

Communications, Light Signals, and Runway Lighting Systems

Traffic Patterns

Performance and Ground Reference Maneuvers

Steep Turns

Basic Instrument Maneuvers

Straight-and-Level Flight

Constant Airspeed Climbs

Constant Airspeed Descents

Turns to Headings

Date of completion	Time flown _		
	_		
Instructor signature		Student initials	

Dual 1.0 Hour (0.25 Hour Instrument) Pre/Postflight 0.5 Hour

Objectives

This lesson will consist of a review of previously learned maneuvers, a deeper investigation into the control of wind effect through variations in bank angle and turn rate during ground-reference maneuvers, and the introduction of takeoff/departure stalls and go-around procedures. The student should be in full command of the aircraft and display confidence in his/her ability to control it through the entire flight regime.

Content

- 1. Preflight discussion
- 2. Review and practice
 - a. Slow flight (VR and IR)
 - b. Medium turns (VR and IR)
 - c. Stalls, straight and turning
 - (1) Power-off
 - (2) Power-on
 - (3) Accelerated
 - d. Simulated forced landing
 - e. Basic ground reference maneuvers
 - f. Traffic pattern, approach and landing
- 3. Introduction
 - a. Takeoff/departure stalls
 - (1) Trim induced stalls
 - (2) Reducing angle of attack without unnecessary altitude loss
 - (3) Secondary stall
 - b. Aborted landings
 - (1) Power use and turning tendency at low airspeed
 - (2) Flap retraction
 - (3) Clearing runway and climbing traffic
 - (4) Obstacle clearance
 - c. Ground reference maneuvers
 - (1) S-turns
 - (2) Turns around a point
 - d. Steep turns (VR and IR)
 - (1) Relationship of back pressure to bank angle; induced drag
 - (2) Effect of pitch changes on VSI and altimeter
 - (3) Overbanking tendency
 - (4) Correction and recovery techniques
 - (5) Emphasis on sensory perception of G-loads
- 4. Postflight critique and preview of next lesson

Continued

The student should perform all maneuvers without hesitation, maintain control of the aircraft at all times, and be capable of evaluating his/her own performance. The student should be able to correct ground track for wind effect, and cope with a simulated engine failure. Tolerances are airspeed ± 10 knots, altitude ± 100 feet, heading $\pm 10^{\circ}$.

Airman Certification Standards

Takeoffs, Landings, and Go-Arounds
Forward Slip to a Landing
Go-Around/Rejected Landing
Slow Flight and Stalls
Maneuvering During Slow Flight

Date of completion	Time flown
Instructor signature	Student initials

Ground Lesson 3

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lesson 8

Lesson Content

Importance of CG position
Effects of overloading
Weight × Arm = Moment
Weight and balance calculations, tabular method
Weight and balance calculations, graphic method

Date of completion	Lesson time
Instructor signature	Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 3

Dual 1.0 Hour Pre/Postflight 0.5 Hour

Objectives

This lesson will review slow flight, weak areas from previous lessons, and traffic pattern entry procedures, in preparation for the introduction of concentrated work on takeoffs and landings. The second phase of the lesson will consist of takeoffs and landings with special emphasis on establishment of consistent traffic pattern procedures, airspeed and ground track control, use of power and flaps in descent, glide path control, and visual clues for landing.

Content

- 1. Preflight discussion
- 2. Review and practice
 - a. Slow flight
 - b. Traffic pattern entry
 - c Selected maneuvers
- 3. Introduction
 - a. Takeoff and landing
 - (1) Rotation speed; best angle and best rate climbs
 - (2) Rudder use during takeoff run and initial climb
 - (3) Ground effect during takeoff
 - (4) Level off
 - (5) Maintaining ground track
 - (6) Key points in the pattern
 - (7) Effect of wind on pattern size
 - (8) Power reduction and initial descent
 - (9) Use of trim
 - (10) Flap use; limiting speeds
 - (11) Approach airspeed
 - (12) Glide path control
 - (13) Visual clues for landing
 - (14) Ground effect during the flare
 - (15) Landing attitude
- 4. Postflight critique and preview of next lesson

Completion Standards

The student should be able to perform all previously learned maneuvers to flight test standards and be able to apply these maneuvers and techniques to the task of flying the aircraft through a reasonably precise traffic pattern, approach, and landing.

Continued

Airman Certification Standards

Performance and Ground Reference Maneuvers

Ground Reference Maneuvers

Date of completion	Time flown	
Instructor signature	Student initials	

Flight Lesson 7

Dual 1.0 Hour (0.25 Hour Instrument) Pre/Postflight 0.5 Hour + Pre-Solo Exam

Objectives

This lesson will afford the student continued practice on takeoffs and landings. The instructor will gradually introduce techniques to improve performance under various field and wind conditions such as crosswinds, slips, no-flap approaches, rejected takeoffs, and emergency go-arounds.

Content

- 1. Preflight discussion
- 2. Review and practice
- 3. Introduction
 - a. Rejected takeoff
 - (1) Go/no-go decision point
 - (2) Deceleration procedures
 - b. Emergency go-around
 - (1) Land/go-around decision point
 - (2) Power and flap use
 - (3) Left-turning tendency during climb
 - (4) Re-entering the traffic pattern
 - c. Emergencies in the traffic pattern
 - (1) Engine failure after takeoff (discussion)
 - (2) Engine failure in the pattern
 - (3) Change in wind direction/runway in use (discussion)
 - (4) Closure of airport or runway while airborne (discussion)
- 4. Postflight critique and preview of next lesson

The student should fly a precise traffic pattern, compensate for wind effect on ground track and glide path, maintain spacing from other aircraft, make safe judgments and control the aircraft in unusual or unanticipated situations, and make unassisted takeoffs and landings.

Airman Certification Standards

Takeoffs, Landings, and Go-Arounds

Normal Approach and Landing

Date of completion	Time flown		
Instructor signature		Student initials	

Ground Lesson 4

1.5 Hour Stage 1 Exam

Reading Assignment

The Complete Private Pilot, Lesson 8

Lesson Content

Density altitude Takeoff and climb performance Best angle, best rate-of-climb Cruise performance Landing distance Ground effect

Date of completion	_Lesson time	
Instructor signature		Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 8

Dual 0.5 Hour Solo 0.5 Hour Pre/Postflight 0.5 Hour

Objectives

At the completion of the dual portion of the lesson, the student will have demonstrated proficiency in all phases of traffic pattern operations, takeoffs, and landings under varying conditions. During this portion the instructor will review and test the student's ability to think through unusual or emergency situations and ensure that the student is prepared for changes in aircraft performance due to weight change when solo. Three solo takeoffs and landings to a full stop are to be performed.

Content

- 1. Preflight discussion
 - a. Pre-solo oral examination
 - b. Check for current medical and student certificate; endorse student logbook
- 2. Review and practice
 - a. Takeoff
 - b. Traffic pattern
 - c. Radio communications
 - d. Approach and landing
 - e. Emergencies and go-arounds
- 3. Introduction
 - a. Briefing on radio use
 - b. Supervised solo in traffic pattern
 - c. Three solo takeoffs and landings
- 4. Postflight critique and preview of next lesson

Completion Standards

The student should demonstrate judgment and capability as pilot-in-command, as well as the skill required to take off and land the airplane, prior to be being permitted to solo. Three satisfactory solo takeoffs and full-stop landings will be observed.

Airman Certification Standards

Airport Operations

Communications, Light Signals, and Runway Lighting Systems

Emergency Operations

Emergency Approach and Landing

Emergency Equipment and Survival Gear

Date of completion	Time flown
Instructor signature	Student initials

Solo Endorsements

Instructor Note: Follow the formats below when signing-off endorsements for your students (from AC 61-65). Endorsement labels are available as a free download from ASA.

1.	Endorse	ment for pre-solo	aeronautical knowl	edge: 14 CFR §61.87(k	o)	
	I certify th	nat (First name, MI,	Last name)	has satisfactor	rily completed the presolo	
			for the (category, make		·	
	S/S	[date]	J.J. Jones	987654321 CFI	[expiration date]	
2.	Endorse	ment for pre-solo	flight training: 14 C	FR §61.87(c)(1) and (2))	
	I certify th	nat (First name, MI,	Last name)	has received a	and logged pre-solo	
	flight train	ning for the maneuve	ers and procedures that a	re appropriate to the (mak	e and model aircraft)	
			aircraft. I have determ	nined he/she has demonstr	rated satisfactory proficiency	
	•	on the maneuvers a craft to be flown.	nd procedures required l	by §61.87 in this or simila	r make and	
	S/S	[date]	J.J. Jones	987654321 CFI	[expiration date]	
3.	Endorse	ment for solo flig	ht (first 90 calendar	·day period): 14 CFR §	61.87(n)	
	I certify that (First name, MI, Last name)		has received the required training to q			
	for solo flying. I have determined he/she meets the applicable requirements of §61.87(n) and is proficient to					
	make solo	flights in (make and	d model aircraft)	·		
	S/S	[date]	J.J. Jones	987654321 CFI	[expiration date]	
4.	Endorsement for solo flight in the Class B airspace: 14 CFR §61.95(a)					
	I certify th	nat (First name, MI,	Last name)	has received t	he required training	
	of §61.95((a). I have determine	ed he/she is proficient to	conduct solo flights in (na	ame of Class B)	
		airspa	ace. (List any applicable	conditions or limitations.)	
	S/S	[date]	J.J. Jones	987654321 CFI	[expiration date]	
5.		ment for solo flig 61.95(b) and §91		airport located within	Class B airspace:	
				has received t	he required training of	
				nt to conduct solo flight op		
	airport)		(List any applicable	conditions or limitations.)	
				987654321 CFI		

Flight Lesson 9: Stage Check

Dual 1.0 Hour (0.25 Hour Instrument) Pre/Postflight 0.5 Hour

Objectives

During this flight the Chief Flight Instructor or the assistant Chief Flight Instructor will confirm the student's ability to conduct solo flights and exercise the judgment required for unsupervised operations.

Content

- 1. Evaluation—any maneuvers from Stage 1 lessons may be included
- 2. Postflight critique

Completion Standards

- 1. Maintain altitude ± 100 feet
- 2. Maintain heading ± 10 degrees
- 3. Maintain airspeed ± 10 knots
- 4. Maintain coordinated control of the aircraft
- 5. Display reasonable skill and understanding in the execution of Stage 1 maneuvers and procedures.

Date of completion	_ Time flown _		
Instructor signature		_ Student initials	

STAGE 2

Cross-Country

Flight Training

7.0 Hours Dual (3 Hours Cross-Country, 3 Hours Night, 1.0 Hour Instrument) 6.5 Hours Solo (2 hours may be conducted Dual at the instructor's discretion) (2.5 Hours Cross-Country)

Objectives

The student will learn how to plan and conduct cross-country flights using pilotage, dead reckoning, and navigation, will learn how to use ATC services under VFR conditions, and will learn the techniques and procedures of night flying.

Completion Standards

The stage will be completed when the student has demonstrated that he/she can plan and conduct solo crosscountry flights using pilotage, dead reckoning, and navigation under VFR conditions, and can obtain and evaluate weather forecasts, reports, and actual flight conditions to determine that VFR flight can be safely conducted.

Ground Training

14.0 Hours Stage 2 Exam

Objective

In Stage 2 the student will learn how to navigate by pilotage and dead reckoning, how navigation is used in the National Airspace System, how to communicate effectively and efficiently. The student will learn about operations at both small fields and large airports, and will receive a thorough primer in weather fundamentals as well as how pilots obtain weather information.

Completion Standards

Stage 2 will be complete when the student has taken and passed the Stage 2 written examination with a passing grade of 80% and has discussed and resolved any incorrect answers with the instructor.

Ground Lesson 5

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lesson 9

Lesson Content

Aeronautical charts
Geographical coordinates
Time zones
Statute vs. nautical miles
Magnetic variation and deviation
Wind drift correction
Use of flight computers and plotters
Ground speed vs. airspeed
Rate problems: time-speed-distance, fuel burn
Chart reading
Enroute emergencies

Date of completion	Lesson time	
	· · · · · · · · · · · · · · · · · · ·	
Instructor signature	Student initials	

Recommended Reading: Private Pilot Test Prep, Chapter 9

Dual 1.5 Hours (0.25 Hour Instrument) Pre/Postflight 0.5 Hour

Objectives

The student will learn how to use the flight and navigation instruments in preparation for cross-country flying, and will be instructed in recovery from unusual attitudes by instrument reference only, and in ASR approach techniques.

Content

- 1. Preflight discussion
 - a. Instrument design, indications, and limitations
 - b. Pitot and vacuum systems
- 2. Introduction
 - a. Use of the turn coordinator
 - (1) Standard rate turns
 - (2) Timed turns
 - b. Use of the magnetic compass
 - (1) Influence of nearby ferrous metal and electric wiring
 - (2) Oscillation error; averaging in turbulence
 - (3) Acceleration and deceleration errors
 - (4) Northerly turning error
 - c. Timed turns to headings
 - (1) Note position of second hand when entering a standard-rate turn
 - (2) Divide number of degrees to be turned by three, and begin rollout as time expires
 - (3) Bank angle vs. heading change
 - (4) Pitch control during turns
 - d. Use of ground-based navigation
 - (1) Navigation radio controls
 - (2) Tuning and identifying NAVAID stations
 - (3) NAVAID and the sectional chart
 - (4) NAVAID orientation
 - (5) Intercepting and tracking radials and bearings
 - (6) Fixing position using dual NAVAIDs
 - (7) Failure indications
 - (8) Station passage
 - e. Use of satellite navigation systems in the aircraft (GPS, etc.)
 - (1) Cockpit controls
 - (2) Locating airplane position
 - (3) Intercepting and tracking a course
 - f. Recovery from unusual attitudes
 - (1) Inducing vertigo; discussion and demonstration
 - (2) Recovery from steep climbing turn
 - (3) Recovery from power-on spiral
 - (4) Recovery from inverted flight (simulator only)

Continued

- g. Inadvertent loss of visual reference
 - (1) Level 180° turn
 - (2) Climb to VFR conditions or safe altitude
 - (3) Controlled emergency descent
- 3. Postflight critique and preview of next lesson

The student will demonstrate the ability to use the magnetic compass, turn and slip indicator, and heading indicator to fly selected headings. A tolerance of ±5 degrees will be allowed when all instruments are used. The student will demonstrate understanding of the VOR and the ability to intercept and fly selected radials. The student will also demonstrate the capability to promptly recover from unusual attitudes solely by reference to instruments.

Airman Certification Standards

Navigation

Lost Procedures

Basic Instrument Maneuvers

Radio Communications, Navigation Systems/Facilities, and Radar Services

Date of completion	Time flown
Instructor signature	Student initials

Dual 0.5 Hour Solo 0.5 Hour Pre/Postflight 0.5 Hour

Objectives

During the dual portion of this lesson the flight instructor will introduce maximum performance takeoffs and landings. The solo portion will build student confidence in his/her ability to depart the traffic pattern, fly solo in the local training area, re-enter the traffic pattern, and land without assistance.

Content

- 1. Preflight discussion
- 2. Review
 - a. Departure procedures
 - b. Flight training area
 - c. Traffic pattern entry
 - d. No-radio airport procedures
 - e. Takeoffs and landings
- 3. Introduction
 - a. Maximum performance takeoffs and landings
 - (1) Short-field takeoff and landing
 - (2) Soft-field takeoff and landing
 - b. Precision turns to headings (VR and IR)
 - (1) Use of heading indicator vs. magnetic compass
 - (2) Making small heading corrections
 - (3) Maintaining altitude during turns
 - c. Recovery from unusual attitudes (VR and IR)
 - (1) Steep bank
 - (2) Onset of climbing stall
 - (3) Power-on spiral
- 4. Postflight critique and preview of next lesson

Completion Standards

The student will demonstrate the ability to use the magnetic compass and/or heading indicator to fly selected headings ±5 degrees. The student will also demonstrate understanding of maximum performance takeoffs and landings and be able to perform them to flight test standards.

Airman Certification Standards

Basic Instrument Maneuvers

Recovery from Unusual Flight Attitudes

Date of completion	Time flown _		
Instructor signature		Student initials	

Ground Lesson 6

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lesson 10

Lesson Content

The VOR
VOR Orientation
Intercepting and tracking radials
VOR checks
HSI
DME
GPS

Date of completion	Lesson time	
Instructor signature		Student initials
mstructor signature.		Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 10

Solo 1.0 Hour (Lesson may be conducted Dual at the instructor's discretion) Pre/Postflight 0.5 Hour

Objectives

During this solo period, the student will review and practice the basic and precision flight maneuvers learned previously, concentrating on those areas specified by the flight instructor.

Content

- 1. Preflight discussion
- 2. Review
 - a. Maneuvering during slow flight
 - b. Stalls
 - (1) Power-off
 - (2) Power-on
 - c. Ground reference maneuvers
 - (1) S-turns
 - (2) Turns around a point
 - d. Normal and/or crosswind landings
 - e. Maneuvers specified by the flight instructor
- 3. Postflight critique and preview of next lesson

Completion Standards

This lesson will be complete when the student has successfully accomplished review and practice of the maneuvers specified.

Airman Certification Standards

Takeoffs, Landings, and Go-Arounds

Normal Approach and Landing

Performance and Ground Reference Maneuvers

J. Jones

Ground Reference Maneuvers

[date]

Instructor signature		Student initials	
Alternate Airport Endo	rsement		
Instructor Note: Follow the	format below when signing-or	ff the endorsement for your studen	ts. (From AC 61-65)
Endorsement for sol §61.93(b)(1)	o landings and takeoffs	at another airport within 25 N	IM: 14 CFR
I certify that (First name	e, MI, Last name)	has received the requi	red training of sec-
tion 61.93(b)(1). I have	determined that he/she is prof	ficient to practice solo takeoffs and	landings at (airport
name)	. The takeoffs and land	dings at (airport name)	are
subject to the following	conditions: (list any applicab	le conditions or limitations).	

[expiration date]

654321 CFI

Date of completion Time flown

Solo 1.5 Hours Pre/Postflight 0.5 Hour

Objectives

During this lesson the student will review and practice the basic and precision flight maneuvers and maximum performance takeoffs and landings learned previously, concentrating on those areas specified by the instructor.

Content

- 1. Preflight discussion
- 2. Review
 - a. Maneuvering during slow flight
 - b. Stalls
 - c. Steep turns
 - d. Maximum performance takeoffs and landings
 - e. Maneuvers specified by the flight instructor
- 3. Postflight critique and preview of next lesson

Completion Standards

This lesson will be complete when the student has successfully accomplished solo review and practice of the maneuvers specified.

Airman Certification Standards

Takeoffs, Landings, and Go-Arounds

Normal Takeoff and Climb

Soft-Field Takeoff and Climb

Soft-Field Approach and Landing

Short-Field Takeoff and Maximum Performance Climb

Short-Field Approach and Landing

Navigation

Pilotage and Dead Reckoning

Navigation Systems and Radar Services

Slow Flight and Stalls

Power-Off Stalls

Power-On Stalls

Spin Awareness

Date of completion _	Time flown	Time flown	
Instructor signature _		Student initials	

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lesson 11

Lesson Content

Voice communication procedures Radio procedures Radio use at non-tower airports Communications at airports with operating towers Transponder use Radar services for VFR pilots ADS-B

Emergency communications

ELT

Radio communication phraseology and technique

Date of completion	Lesson time	
Instructor signature		Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 5

Solo 1.0 Hour (Lesson may be conducted Dual at the instructor's discretion) Pre/Postflight 0.5 Hour

Objectives

During this lesson the student will reinforce the basic attitude flying and navigational skills introduced in Lesson 11 by planning and flying a short (more than 25 nautical miles) cross-country flight.

Content

- 1. Preflight discussion
 - a. Cockpit organizations and cross-country planning log
- 2. Review and practice
 - a. Climbs
 - b. Straight and level
 - c. Descents
 - d. Local area departure and arrival
- 3. Introduction
 - a. VOR navigation with varying crosswind (VR)
 - b. Dead reckoning
 - c. Pilotage
 - d. VOR failure
 - e. Fuel management
 - f. Unfamiliar airport operations (airplane only)
- 4. Postflight critique and preview of next lesson

Completion Standards

The student should demonstrate the ability to carry out a short cross-country flight by use of both visual and VOR navigation, and exhibit readiness for more ambitious trips. Aircraft should be controlled within ± 200 feet in altitude and $\pm 10^{\circ}$ in heading.

Airman Certification Standards

Emergency Operations

Emergency Descent Systems and Equipment Malfunctions

Date of completion	Time flown		
Instructor signature		_ Student initials	

Dual 1.0 Hour (0.25 Hour Instrument) Pre/Postflight 0.5 Hour

Objectives

The student will demonstrate the ability to completely plan a cross-country flight, depart and get established on course, and compute ETAs and fuel consumption. The student will brief the instructor on Class B/Class C airspace operations or other special procedures. En route, the instructor will direct the student to simulate an encounter with adverse weather and divert to the nearest suitable airport. The student should demonstrate the ability to handle this and other emergencies, and to safely conduct cross-country flights.

Content

- 1. Preflight discussion and preparations
 - a. Weather analysis and NOTAMs
 - b. Flight planning log
 - c. AIM and Chart Supplement U.S.
 - d. Aircraft performance
 - e. FAA flight plan
- 2. Review and practice
 - a. Pilotage, dead reckoning, and navigation
 - b. Estimates and fuel consumption
 - c. Departure and enroute procedures
- 3. Introduction
 - a. Transition from visual to instrument reference
 - b. Determining position by VOR
 - c. Emergency determination of course to alternate
 - d. Low fuel state
 - e. Electrical failure
 - f. Imminent forced landing
- 4. Postflight critique and preview of next lesson

Completion Standards

The student should display competence in planning and flying cross-country flights, including weather analysis, alternative plans of action, and calculation of estimates and fuel consumption. Aircraft control tolerances are ±200 feet of altitude, ±10° in heading, and ±2 miles of the planned course. The student should demonstrate the ability to handle in-flight emergencies, obtain assistance, and evaluate and avoid circumstances which might lead to emergency action.

Airman Certification Standards

Navigatio	n
ъ.	

Diversion

Date of completion	Time flown
Instructor signature	Student initials

1.5 Hour

Reading Assignment

The Complete Private Pilot, Lesson 5 and Lesson 9

Lesson Content

The Five Ps

The airport

Wind indicators, airport markings and signs

VASI

Taxiing

Crosswind operations

Wake turbulence avoidance

Line signals

Operations at non-tower airports

Operations at airports with control towers

Pattern work

Flying at night

Visibility: ground vs. flight

Inflight emergencies

Renting

Airspace

Date of completion	_ Lesson time
Instructor signature	Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 11

Dual 1.0 Hour (0.25 Instrument, 1.0 Hour Cross-Country) Pre/Postflight 1.0 Hour

Objectives

The student will learn to navigate over a cross-country course of more than 50 miles one way and with more than one leg, using pilotage, dead reckoning, and NAVAIDs; will be able to compute fuel consumption and estimate times to checkpoints and destinations; file, open, and close a flight plan; operate and communicate at controlled airports; and retain orientation in unfamiliar situations.

Content

- 1. Preflight discussion and preparation
 - a. Weather analysis and NOTAMs
 - b. Cross-country planning log
 - c. AIM and Chart Supplement U.S.
 - d. Class C, Class B airspace; VFR flyways
 - e. Aircraft performance
 - f. The FAA flight plan form
 - g. Weight and balance calculations
- 2. Introduction
 - a. Pilotage
 - b. Dead reckoning
 - c. VOR navigation on and off airways
 - d. Radar services for VFR pilots
 - e. Computing estimates and fuel consumption
 - f. Departure and opening flight plan
 - g. Enroute procedures; obtaining weather enroute
 - h. Arrival procedures; controlled and uncontrolled airports
 - i. Landing at unfamiliar airports
 - i. Closing flight plan
 - k. Procedures when lost or disoriented
- 3. Postflight critique and preview of next lesson

Completion Standards

The student will demonstrate the ability to plan and fly complex routes and navigate using pilotage, dead reckoning, and NAVAIDs; to use the radio for en route (flight following) and terminal area communications; to perform fuel and ETA calculations; and to plan and execute approaches and landings at unfamiliar airports. The student will demonstrate an understanding of how weather information is obtained and analyzed.

Continued

Airman Certification Standards

Preflight Preparation

Weather Information Cross-Country Flight Planning National Airspace System Performance and Limitations

Date of completion	Time flown		
Instructor signature		_ Student initials	

Flight Lesson 17

Dual 2.0 Hours (2.0 Hours Cross-Country, 2.0 Hours Night) Pre/Postflight 1.0 Hour

Objectives

During this lesson the student should develop the skills and judgment necessary to enable him/her to make safe night solo flights within the airport traffic pattern and conduct safe cross-country operations. The student should understand the currency requirements for night flight and perform 5 takeoffs and landings.

Content

- 1. Preflight discussion
 - a. Night vision and limitations
 - b Fatigue and hypoxia effect on night vision
 - c. Vertigo
 - d. Judgment of distance and visual illusions at night
 - e. Aircraft lights
 - f. Airport lighting systems; pilot-controlled lighting
 - g. Federal Aviation Regulations
 - h. Weather considerations
- 2. Review and practice
 - a. Communications
 - b. Traffic pattern procedures

- 3. Introduction
 - a. Night preflight
 - b. Cockpit and position lights
 - c. Anticollision lighting systems
 - d. Taxiing
 - e. Takeoff, climb, and area departure
 - f. Area orientation
 - g. Interpretation of aircraft and airport lights
 - h. Emergency landings and route selection; minimum safe altitude
 - i. Visual illusions and vertigo
 - j. Pilotage, dead reckoning, and cross-country operations (plan a cross-country greater than 150 NM, with 3 takeoffs and landings at a tower-controlled airport; one segment of the flight must consist of a distance of more than 50 NM between the takeoff and landing locations)
 - k. Traffic pattern entry
 - 1. Takeoffs and landings
 - (1) Power approaches and landings
 - (2) Effects of flaps on approach slope
 - (3) Electrical failure—landing without lights
 - (4) Five night takeoffs and landings
- 4. Postflight critique and preview of next lesson

Completion Standards

This lesson will be complete when the student demonstrates the ability to maintain orientation in the local flying area and traffic pattern, can accurately interpret aircraft and airport lights, can conduct safe cross-country operations, and can competently take off, fly the traffic pattern, and land at night. The student should display an understanding of emergency procedures and of preflight and pre-takeoff considerations peculiar to night operations.

Airman Certification Standards

Pre	flio	ht I	Prena	ration
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Human Factors

Night Operation

Night Preparation

Date of completion	Time flown	Time flown	
· ·	_	G. 1 · · · · · · · · · · · · · · · · · ·	
Instructor signature		Student initials	

1.5 Hours Stage 2 Exam

Reading Assignment

The Complete Private Pilot, Lessons 6 and 7

Lesson Content

Pressure systems

Circulation patterns

Temperature vs. moisture content

Relative humidity and dew point

Fronts: cold, warm, occluded, stationary

Stability

Cloud families

Thunderstorms

Wind shear and turbulence

Fog

Structural icing and frost

Cold weather operations

The go/no go decision

Sources of weather information

Weather reports and forecasts

The Skew-T

Prog charts

METAR

Graphical Forecasts for Aviation (GFA)

Terminal Aerodrome Forecasts (TAFs)

Winds aloft forecasts

Inflight advisories: AIRMETs, SIGMETs, PIREPs

Weather charts

Surface analysis

Weather depiction

Convective forecast

Low-level significant weather prognostics

Weather in the cockpit

Date of completion	Lesson time
Instructor signature	Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 6

Solo 2.5 Hours (2.5 Hours Cross-Country) Pre/Postflight 1.0 Hour

Objectives

During this lesson the student will conduct a solo cross-country flight using pilotage, dead reckoning and radio navigation. The flight will follow the same route as Lesson 17 and include 3 takeoffs and landings at a towercontrolled airport.

Content

- 1. Preflight discussion
- 2. Preparation and instructor endorsement
- 3. Flight
- 4. Postflight critique and preview of next lesson

Completion Standards

The lesson is complete when the student has performed the solo cross-country flight and the postflight critique indicates satisfactory performance.

Date of completion	Time flown	
Instructor signature		Student initials

Cross-Country Endorsements

Instructor Note: Follow the format below when signing-off the endorsement for your students (from AC 61-65).

1.	Endorsement for initial solo cross-country flight: 14 CFR § 61.93(c)(1)					
	I certify that (First name, MI, Last name)			has received the required solo cross-		
				equirements of section 61.93,		
	solo cross-o	country flights in a (category, make and mo	del aircraft)	·	
				[expiration date]		
2.	Endorsen	nent for each solo	cross-country flig	ht: 14 CFR § 61.93(c)(2)		
	I have revie	ewed the cross-count	try of (First name, MI,	<i>Last name</i>)	I find the plan-	
				ght from (location)		
	tination)		_via (route of flight)_	wit	h landings at (name the	
	airports)in a (category, make and model aircraft)					
	on (date)					
	[date]	J. Jones	654321 CFI	[expiration date]		
3.		nent for repeated e: 14 CFR § 61.93(-	flights not more than 50	O NM from the point of	
	I certify that	at (First name, MI, L	ast name)	has received th	ne required training in	
	that he/she is proficient of section 61.93(b)(2) to conduct repeated solo cross-country flights over that route,					
	subject to t	he following conditi	ons: (list any applicable	le conditions or limitations) _		
	[date]	J. Jones	· 654321 CFI	[expiration date]		

Flight Lesson 19: Stage Check

Dual 1.0 Hour (0.25 Hour Instrument, 1.0 Hour Night) Pre/Postflight 0.5 Hour

Objectives

To confirm that the student can plan and conduct a cross-country flight including a diversion to an alternate airport as necessary to avoid adverse weather and conduct safe night operations. This stage check will be conducted by the Chief Flight Instructor or the Assistant Chief Flight Instructor. Include 5 takeoffs and landings.

Content

- 1. Preparation—the student will plan a round-robin cross-country flight including at least one controlled airport (if available).
- 2. Evaluation—planning, filing, flying, navigation, diversions and emergencies will be covered.
- 3. Postflight critique

Completion Standards

The student will demonstrate the ability to safely conduct cross-country flight operations and demonstrate a thorough knowledge of proper preflight action, flight planning, weather analysis, flight planning publications, and night operations. All pilot duties will be performed with smoothness, accuracy, and competence. The student should be able to divert to an alternate airport and give a reasonable estimate of arrival time and remaining fuel. The student should be able to use VOR for orientation, fixing the airplane's position within three miles. The student will be able to:

- 1. Establish and maintain headings required to stay on course
- 2. Correctly fix his/her position at any time
- 3. Provide estimates with an error of not more than ten minutes
- 4. Maintain altitude within ± 200 feet
- 5. Establish a course to an alternate and give a reasonable estimate of time and fuel required to reach the alternate.

Date of completion	Time flown	
Instructor signature	Student initials	

STAGE 3

Pilot Operations

Flight Training

4.5 Hours Dual (0.75 Hour Instrument)

8.0 Hours Solo (8.0 hours may be conducted Dual at the instructor's discretion)

(7.0 hours cross-country; all of which may be conducted Dual at the Instructor's discretion)

Objectives

The student will gain further experience in cross-country practice and receive instruction in preparation for the private pilot flight test.

Completion Standards

This stage will be completed when the student satisfactorily passes the final stage check for the course and meets all the flight time requirements set forth in 14 CFR Part 141 or Part 61.

Ground Training

10.0 Hours Stage 3 Exam Final Exam

Objective

In Stage 3, the student will learn where to find information vital to safe flight, and learn how flight affects pilots physiologically. A review of pertinent Federal Aviation Regulations and a typical cross-country flight complete Stage 3.

Completion Standards

Stage 3 will be complete when the student has passed the Stage 3 written examination with a passing grade of 80 percent or better, and has reviewed, with the instructor, subject areas in which the student is weak.

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lessons 4 and 5

Lesson Content

Government regulations and other procedures publications

Aeronautical Information Manual (AIM)

Pilot/Controller Glossary

Federal Aviation Regulations

The aviation safety reporting system

Accident reporting

Airworthiness directives (ADs)

Minimum equipment lists

Chart Supplements U.S.

Advisory Circulars (ACs)

NOTAMs

Aviation media

Electronic flight bag

Human factors

Drugs and alcohol

Hypoxia and hyperventilation

Carbon monoxide poisoning

Ear problems

Visual illusions

Vertigo

Night vision and scanning

Aeronautical decision-making

Judgement

Risk management

Date of completion	Lesson time
Instructor signature	Student initials

Recommended Reading: Private Pilot Test Prep, Chapter 7

Solo 3.0 Hours (3.0 Hours Cross-Country; lesson may be conducted Dual at the instructor's discretion) Pre/Postflight 1.0 Hour

Objectives

During this lesson the student will conduct a three-leg solo cross-country flight. Practice at locating small airports will be gained en route, with an optional landing if conditions permit.

Content

- 1. Preflight discussion
 - a. Class B/Class C airspace considerations
 - b. Special use airspace
 - c. Hills/mountainous terrain considerations
 - d. Route selection
 - e. Selection of cruising altitude
- 2. Preparation
- 3. Flight. At least one leg will be flown using pilotage and dead reckoning only, if feasible. The student will attempt to locate and identify airports en route, and may elect to land at an airport designated by the instructor if conditions permit. The student should obtain logbook entries at each point of landing, if possible.
- 4. Postflight critique and preview of next lesson

Completion Standards

The student will have completed a solo cross-country with designated stops. The instructor will debrief the student to determine how well the flight was conducted.

Date of completion	Time flown
Instructor signature	Student initials

Solo 4.0 Hours (4.0 Hours Cross-Country; lesson may be conducted Dual at the instructor's discretion) Pre/Postflight 1.0 Hour

Objectives

During this lesson the student will conduct a three-leg solo cross-country flight totaling at least 300 NM. One landing shall be made at an airport at least 100 NM from the original departure point.

Content

- 1. Preflight discussion
- 2. Preparation
 - a. Obtaining weather reports and forecasts
 - b. Updating weather information in flight
- 3. Flight
 - a. Student should obtain logbook entries at each point of landing, if possible.
- 4. Postflight critique and preview of next lesson

Completion Standards

The student will complete a long cross-country flight. The instructor will debrief the student to determine how well the flight was conducted.

Date of completion _	Time flown	
Instructor signature		Student initials

1.5 Hours

Reading Assignment

The Complete Private Pilot, Lesson 4

Lesson Content

14 CFR Part 61 14 CFR Part 91 NTSB Part 830

Date of completion	Lesson time	
Instructor signature	Student initials	
		_

Recommended Reading: Private Pilot Test Prep, Chapter 4

Flight Lesson 22

Dual 1.5 Hours (0.25 Instrument) Pre/Postflight 0.5 Hour

Objectives

The student will be able to perform advanced maneuvers which were previously introduced.

Content

- 1. Preflight discussion
- 2. Review
 - a. Short-field takeoffs and landings
 - b. Soft-field takeoffs and landings
 - c. Ground reference maneuvers
 - d. Maneuvering during slow flight
 - e. Stalls
 - f. Steep turns

Continued

- g. Maneuvering by reference to flight instruments
- h. Emergency operations
- i. Maximum performance takeoffs and landings
- 3. Postflight critique and preview of next lesson

Completion Standards

The student should demonstrate proficiency in all advanced maneuvers and exercise pilot-in-command responsibility and judgment in all operations.

Date of completion	Time flown	
Instructor signature	Student i	initials

Flight Lesson 23

Solo 1.0 Hour (Lesson may be conducted Dual at the instructor's discretion) Pre/Postflight 1.0 Hour

Objectives

The student will be able to perform specific flight maneuvers assigned by the flight instructor to increase proficiency.

Content

- 1. Preflight discussion
- 2. Performance of assigned maneuvers
- 3. Postflight critique and preview of next lesson

Completion Standards

The student has completed the specific flight maneuvers assigned by the flight instructor.

Date of completion	_ Time flown
Instructor signature	Student initials

1.5 Hours Stage Exam

Reading Assignment

The Complete Private Pilot, Lesson 12

Lesson Content

Flight planning and flight logs Weather briefing Choosing a route Fuel planning Preparing the flight log Filing the flight plan Flying the planned trip

Date of completion	_Lesson time		
Instructor signature		Student initials	
Stage exam score			

Flight Lesson 24: Stage Check

Dual 1.5 Hours (0.25 Instrument) Pre/Postflight 1.0 Hour

Objectives

The student will be able to demonstrate the required preparation and proficiency in the practical test for a private pilot certificate. This stage check will be conducted by the Chief Flight Instructor or assistant.

Content

- 1. Preflight discussion and oral examination
- 2. Review of maneuvers specified in the Private Pilot Airman Certification Standards
- 3. Postflight critique

Completion Standards

The student will demonstrate proficiency in the practical test for a private pilot certificate with all maneuvers accomplished promptly, without assistance, and to the tolerances specified in the Airman Certification Standards. The student will display pilot-in-command responsibility, knowledge, and judgment throughout. Any time there is a necessity for the instructor to assume command or control, this will be disqualifying. A graduation certificate will be issued upon satisfactory completion.

Date of completion	Time flown
Instructor signature	Student initials
Stage check successful	

Dual 1.5 Hours (0.25 Instrument) Pre/Postflight 1.0 Hour

Objectives

During this lesson the instructor will determine the student's proficiency in all maneuvers and procedures necessary to conduct flight operations as a private pilot.

Content

- 1. Preflight discussion and oral examination
- 2. Review of previously covered procedures and maneuvers

Completion Standards

The student should display the ability to meet the requirements of the Private Pilot Airman Certification Standards for operations as a private pilot.

Date	te of completion Time flown _			
Instru	actor signature			Student initials
Priva	ate Pilot En	dorsements		
Instr	uctor Note: Fo	llow the formats	s below when signing-of	f endorsements for your students (from AC 61-65).
I a	certify that (F ccordance wit	<i>irst name, MI, L</i> h section 61.105	Last name)	has received the required training in she is prepared for (name the knowledge test, aircraft
				[expiration date]
I c	certify that (F ordance with s	irst name, MI, L	ast name)and 61.109. I have deter	has received the required training in actimined he/she is prepared for the (name the practical te
[date]	J. Jones	654321 CFI	[expiration date]

Checkride Checklist

Graded pre-solo written exam
Current Student Pilot certificate
Each solo cross-country endorsed
90-day current solo endorsement (if necessary)
Student Pilot certificate
Application form (8710-1) filled out completely
Logbook and necessary supplies readily accessible
Materials necessary for planning a cross-country flight
FAA Knowledge Exam results
Identification with photo and signature
Instructor endorsements for checkride
Graduation certificate
Examiner's fee
Current Medical

Pre-Solo Exam

- 1. If the outside air temperature (OAT) at a given altitude is warmer than standard, the density altitude
 - A—equal to pressure altitude.
 - B—lower than pressure altitude.
 - C—higher than pressure altitude.
- 2. Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?
 - A—Low temperature, low relative humidity, and low density altitude.
 - B—High temperature, low relative humidity, and low density altitude.
 - C—High temperature, high relative humidity, and high density altitude.
- **3.** If the temperature/dew point spread is small and decreasing, and the temperature is 62°F, what type of weather is most likely to develop?
 - A—Freezing precipitation.
 - B—Thunderstorms.
 - C—Fog or low clouds.
- **4.** Which type of weather briefing should a pilot request, when departing within the hour, if no preliminary weather information has been received?
 - A—An outlook briefing.
 - B—An abbreviated briefing.
 - C—A standard briefing.
- **5.** What conditions are necessary for the formation of thunderstorms?
 - A—High humidity, lifting force, and unstable conditions.
 - B—High humidity, high temperature, and cumulus
 - C—Lifting force, moist air, and extensive cloud cover.

- **6.** When telephoning a weather briefing facility for preflight weather information, pilots should state
 - A—the full name and address of the pilot-in-command.
 - B—the intended route, destination, and type of aircraft.
 - C—the radio frequencies to be used.
- Who is responsible for making the go-no go decision for each flight?
 - A—Pilot-in-command.
 - B—Certified flight instructor.
 - C—Chief flight instructor.
- **8.** What information is necessary in order to make a go-no go decision?
 - A—Permission from the chief flight instructor, chief mechanic, and weather briefer.
 - B—Acceptable weather conditions, an airworthy aircraft, and an airworthy pilot.
 - C—Permission from the weather briefer, an airworthy aircraft, and an airworthy pilot.
- **9.** Two-way radio communication must be established with the Air Traffic Control facility having jurisdiction over the area prior to entering which class airspace?
 - A-Class C.
 - B—Class E.
 - C—Class G
- **10.** Unless otherwise authorized, two-way radio communications with Air Traffic Control are required for landings and takeoffs
 - A—at all tower controlled airports within Class D airspace only when weather conditions are less than VFR.
 - B—at all tower controlled airports regardless of weather conditions.
 - C—at all tower controlled airports only when weather conditions are less than VFR

- **11.** Which is the correct traffic pattern departure procedure to use at a noncontrolled airport?
 - A—Comply with any FAA traffic pattern established for the airport.
 - B—Depart in any direction consistent with safety, after crossing the airport boundary.
 - C—Make all turns to the left.
- **12.** An airport's rotating beacon operated during daylight hours indicates
 - A—that weather at the airport located in Class D airspace is below basic VFR weather minimums
 - B—there are obstructions on the airport.
 - C—the Air Traffic Control tower is not in operation.
- **13.** The official source of sunrise and sunset times is
 - A—the Aeronautical Information Manual.
 - B—the Air Almanac.
 - C—the Federal Aviation Regulations.
- **14.** An aircraft departs an airport in the Eastern Daylight Time Zone at 0945 EDT for a 2-hour flight to an airport located in the Central Daylight Time Zone. The landing should be at what coordinated universal time?
 - A—1345Z.
 - B—1445Z
 - C-1545Z.
- **15.** In order to comply with Private Airman Certification Standards, students must perform Turns Around a Point and S-turns
 - A—at traffic pattern altitude, while maintaining altitude ±100 feet, and airspeed ±10 knots, while maintaining coordination.
 - B—between 600 and 1,000 feet AGL, while maintaining altitude ±100 feet, and airspeed ±10 knots, while maintaining coordination.
 - C—at traffic pattern altitude, while maintaining altitude ± 100 feet, and heading ± 10 degrees, while maintaining coordination.

- **16.** In order to comply with Private Airman Certification Standards, the student must perform Rectangular Course
 - A—between 600 and 1,000 feet AGL, while maintaining altitude ±100 feet, and airspeed ±10 knots, while maintaining coordination.
 - B—between 600 and 1,000 feet AGL, entering 45° to the downwind, while maintaining coordination.
 - C—at traffic pattern altitude, while maintaining altitude ±100 feet, and airspeed ±10 knots, while maintaining coordination.
- **17.** In headwind conditions, the ground speed will the airspeed.
 - A—exceed
 - B—be less than
 - C—be the same as
- **18.** To maintain a desired track over the ground, apply
 - A—a wind correction angle into the wind.
 - B—a wind correction angle out of the wind.
 - C—power and a steeper bank angle.
- **19.** The numbers 9 and 27 on a runway indicate that the runway is oriented approximately
 - A—009° and 027° true.
 - B -090° and 270° true.
 - C—090° and 270° magnetic.
- **20.** If two-way communication fails at an airport with a tower and cannot be restored, the recommended procedure is to
 - A-make an off-airport landing.
 - B—turn on your landing light, enter the airport area on final approach, and land as soon as possible.
 - C—observe traffic flow, enter the traffic pattern on the downwind, look for light signals from the tower, and squawk 7600 on your transponder.

21.	In an in-flight emergency requiring emergency action, the pilot-in-command			24. When you fly solo, you are pilot-in-command, and you are required to have in your personal posses-		
	A—may deviate from any rule of the extent required to meet B—must not deviate from any rule of the company deviate from any rule of the confly after receiving prior per ATC.	that emer rule of FA of FAR Pa	nat emergency. de of FARPart 91. FAR Part 91 but		sion a A—pilot certificate and logbook. B—pilot certificate and medicate certificate. C—CFI solo endorsement, and copy of the FAR/AIM.	
22.	When approaching another airc pilot must alter his/her course	raft head	on, each	25	Student pilots are responsible for all information, rules, and regulations in FAR Parts	
	A—to the left. B—to the right. C—with a descent.				A—61, and 91. B—91, and 121. C—1, and 67.	
23.	Normal and crosswind takeoffs should take place	and land	ings	26	A person may not act as a crewmember of a civil aircraft if alcoholic beverages have been consumed by that person within the preceding	
	A—with the wind. B—into the wind. C—perpendicular to the wind.				A—8 hours. B—12 hours. C—24 hours.	
27.	List the airspeeds and their defi	nitions, fo	or the trainir Definition	-	rcraft to be used for solo flight:	
	Short-field takeoff	Speed	Deminion			
	Short-field landing					
	Normal takeoff					
	Normal landing					
	Soft-field takeoff					
	Soft-field landing					
	To practice Private maneuvers					
	V_{S1}					
	V_{S0}					
	V_{A}					
	V_X					
	V_{Y}					
	$ m V_{FE}$					
	V_{NO}					
	$V_{ m NE}$		-			
	Best Glide					

28.	List the graused in the		_	-	el and oil to be solo flight:
	Fuel	Grade	_	•	
	Oil				
29.	What do ea mean?	ch of the	follo	wing ATC	light signals
				In Flight	On the
	Ground				
	Steady gree	en			
	Flashing gr	een			
	Steady red				
	Flashing re	d			
	Flashing w	hite			
	Alternating	red and	green		
30.	What action	ns will yo	ou tak	e for an en	gine failure:
	Right after	takeoff_			
	50 feet afte	r takeoff			
	Downwind	, in the tr	affic j	pattern	
	In the pract	ice area			

Stage 1 Exam

- **1.** What is true altitude?
 - A—The vertical distance of the aircraft above sea
 - B—The vertical distance of the aircraft above the surface.
 - C—The height above the standard datum plane.
- **2.** What is pressure altitude?
 - A—The indicated altitude corrected for position and installation error.
 - B—The altitude indicated when the barometric pressure scale is set to 29.92.
 - C—The indicated altitude corrected for nonstandard temperature and pressure.
- **3.** Under what condition is indicated altitude the same as true altitude?
 - A—If the altimeter has no mechanical error.
 - B—When at sea level under standard conditions.
 - C—When at 18,000 feet MSL with the altimeter set at 29 92
- **4.** Under what condition will true altitude be lower than indicated altitude?
 - A—In colder than standard air temperature.
 - B—In warmer than standard air temperature.
 - C—When density altitude is higher than indicated altitude.
- **5.** If it is necessary to set the altimeter from 29.15 to 29.85, what change occurs?
 - A—70-foot increase in indicated altitude.
 - B—70-foot increase in density altitude.
 - C—700-foot increase in indicated altitude.
- **6.** With regard to carburetor ice, float-type carburetor systems in comparison to fuel injection systems are generally considered to be
 - A—more susceptible to icing.
 - B—equally susceptible to icing.
 - C—susceptible to icing only when visible moisture is present.

- **7.** The presence of carburetor ice in an aircraft equipped with a fixed-pitch propeller can be verified by applying carburetor heat and noting
 - A—an increase in RPM and then a gradual decrease in RPM.
 - B—a decrease in RPM and then a constant RPM indication.
 - C—a decrease in RPM and then a gradual increase in RPM
- **8.** What change occurs in the fuel/air mixture when carburetor heat is applied?
 - A—A decrease in RPM results from the lean mixture
 - B—The fuel/air mixture becomes richer.
 - C—The fuel/air mixture becomes leaner.
- **9.** Generally speaking, the use of carburetor heat tends to
 - A—decrease engine performance.
 - B—increase engine performance.
 - C—have no effect on engine performance.
- **10.** One purpose of the dual ignition system on an aircraft engine is to provide for
 - A—improved engine performance.
 - B—uniform heat distribution.
 - C—balanced cylinder head pressure.
- **11.** For internal cooling, reciprocating aircraft engines are especially dependent on
 - A—a properly functioning thermostat.
 - B—air flowing over the exhaust manifold.
 - C—the circulation of lubricating oil.

- **12.** If the engine oil temperature and cylinder head temperature gauges have exceeded their normal operating range, the pilot may have been operating with
 - A—the mixture set too rich.
 - B—higher-than-normal oil pressure.
 - C—too much power and with the mixture set too lean.
- **13.** Detonation occurs in a reciprocating aircraft engine when
 - A—the spark plugs are fouled or shorted out or the wiring is defective.
 - B—hot spots in the combustion chamber ignite the fuel/air mixture in advance of normal ignition.
 - C—the unburned charge in the cylinders explodes instead of burning normally.
- **14.** On aircraft equipped with fuel pumps, the practice of running a fuel tank dry before switching tanks is considered unwise because
 - A—the engine-driven fuel pump or electric fuel boost pump may draw air into the fuel system and cause vapor lock.
 - B—the engine-driven fuel pump is lubricated by fuel and operating on a dry tank may cause pump failure.
 - C—any foreign matter in the tank will be pumped into the fuel system.
- **15.** What type fuel can be substituted for an aircraft if the recommended octane is not available?
 - A—The next higher octane aviation gas.
 - B—The next lower octane aviation gas.
 - C—Unleaded automotive gas of the same octane rating.

- **16.** The basic purpose of adjusting the fuel/air mixture at altitude is to
 - A—decrease the amount of fuel in the mixture in order to compensate for increased air density.
 - B—decrease the fuel flow in order to compensate for decreased air density.
 - C—increase the amount of fuel in the mixture to compensate for the decrease in pressure and density of the air.
- **17.** (Refer to Figure 1-1.) How should a pilot determine the direction of bank from an attitude indicator such as the one illustrated?
 - A—By the direction of deflection of the banking scale (A).
 - B—By the direction of deflection of the horizon bar (B).
 - C—By the relationship of the miniature airplane (C) to the deflected horizon bar (B).

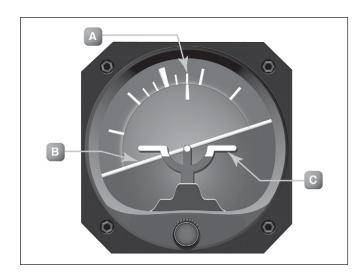


Figure 1-1

- **18.** (Refer to Figure 1-2.) To receive accurate indications during flight from a heading indicator, the instrument must be
 - A—set prior to flight on a known heading.
 - B—calibrated on a compass rose at regular intervals.
 - C—periodically realigned with the magnetic compass as the gyro precesses.



Figure 1-2

- **19.** In the Northern Hemisphere, if an aircraft is accelerated or decelerated, the magnetic compass will normally indicate
 - A—a turn momentarily.
 - B—correctly when on a north or south heading.
 - C—a turn toward the south.
- **20.** Deviation in a magnetic compass is caused by the
 - A—presence of flaws in the permanent magnets of the compass.
 - B—difference in the location between true north and magnetic north.
 - C—magnetic fields within the aircraft distorting the lines of magnetic force.

- **21.** (Refer to Figure 1-3.) What is the full flap operating range for the airplane?
 - A-55 to 100 knots.
 - B-55 to 208 knots.
 - C—55 to 165 knots.

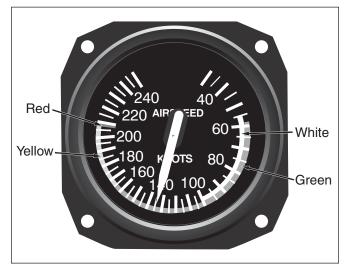


Figure 1-3

- **22.** The pitot system provides impact pressure for which instrument?
 - A—Altimeter.
 - B—Vertical-speed indicator.
 - C—Airspeed indicator.
- 23. (Refer to Figure 1-3.) What is the maximum flapsextended speed?
 - A—65 knots.
 - B—100 knots.
 - C—165 knots.

- **24.** (Refer to Figure 1-4). Altimeter 1 indicates
 - A-500 feet.
 - B—1,500 feet.
 - C—10,500 feet.
- **25.** Which instrument will become inoperative if the pitot tube becomes clogged?
 - A—Altimeter.
 - B—Vertical speed.
 - C—Airspeed.
- **26.** When are the four forces that act on an airplane in equilibrium?
 - A—During unaccelerated flight.
 - B—When the aircraft is accelerating.
 - C—When the aircraft is at rest on the ground.
- **27.** One of the main functions of flaps during approach and landing is to
 - A—decrease the angle of descent without increasing the airspeed.
 - B—permit a touchdown at a higher indicated airspeed.
 - C—increase the angle of descent without increasing the airspeed.

- **28.** The term "angle of attack" is defined as the angle
 - A—between the wing chord line and the relative wind.
 - B—between the airplane's climb angle and the horizon.
 - C—formed by the longitudinal axis of the airplane and the chord line of the wing.
- **29.** (Refer to Figure 1-5.) If an airplane weighs 3,300 pounds, what approximate weight would the airplane structure be required to support during a 30° banked turn while maintaining altitude?
 - A—1,200 pounds.
 - B-3,100 pounds.
 - C-3,808 pounds.

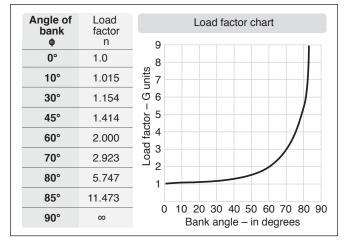


Figure 1-5



Figure 1-4

- **30.** The left turning tendency of an airplane caused by P-factor is the result of the
 - A—clockwise rotation of the engine and the propeller turning the airplane counterclockwise.
 - B—propeller blade descending on the right, producing more thrust than the ascending blade on the left.
 - C—gyroscopic forces applied to the rotating propeller blades acting 90° in advance of the point the force was applied.
- **31.** Which basic flight maneuver increases the load factor on an airplane as compared to straight-andlevel flight?
 - A—Climbs.
 - B—Turns
 - C—Stalls.
- **32.** What determines the longitudinal stability of an airplane?
 - A—The location of the CG with respect to the center of lift.
 - B—The effectiveness of the horizontal stabilizer. rudder, and rudder trim tab.
 - C—The relationship of thrust and lift to weight and drag.
- **33.** What causes an airplane (except a T-tail) to pitch nosedown when power is reduced and controls are not adjusted?
 - A—The CG shifts forward when thrust and drag are reduced.
 - B—The downwash on the elevators from the propeller slipstream is reduced and elevator effectiveness is reduced.
 - C—When thrust is reduced to less than weight, lift is also reduced and the wings can no longer support the weight.
- **34.** Loading an airplane to the most aft CG will cause the airplane to be
 - A—less stable at all speeds.
 - B—less stable at slow speeds, but more stable at high speeds.
 - C—less stable at high speeds, but more stable at low speeds.

- **35.** As altitude increases, the indicated airspeed at which a given airplane stalls in a particular configuration will
 - A—decrease as the true airspeed decreases.
 - B—decrease as the true airspeed increases.
 - C—remain the same regardless of altitude.
- **36.** In what flight condition must an aircraft be placed in order to spin?
 - A—Partially stalled with one wing low.
 - B—In a steep diving spiral.
 - C—Stalled.
- **37.** An aircraft is loaded 110 pounds over maximum certificated gross weight. If fuel (gasoline) is drained to bring the aircraft weight within limits, how much fuel should be drained?
 - A—15.7 gallons.
 - B—16.2 gallons.
 - C—18.4 gallons.
- **38.** (Refer to Figure 1-6.) What is the maximum amount of baggage that may be loaded aboard the airplane for the CG to remain within the moment envelope?

WEIG	HT (LB)	MOM/1000
Empty weight	1,350	51.5
Pilot and front passenger	250	
Rear passengers	400	
Baggage		
Fuel, 30 gal		
Oil, 8 qt		-0.2
A—105 pounds.		
B—110 pounds.		

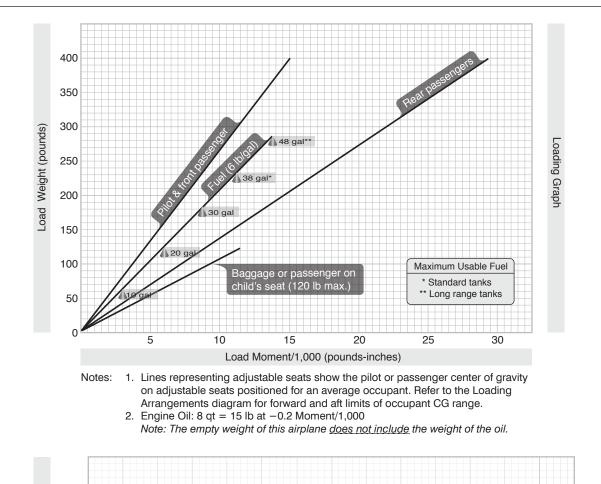
39. Determine the moment/1000 with the following data using the graphs in Figure 1-6.

WEI	GHT (LB)	MOM/1000
Empty weight	1,350	51.5
Pilot and front passenger	340	
Fuel, (std tanks)	Capacity	
Oil, 8 qt		
4 (0.0.11 :		

A—69.9 lb.-in.

C—120 pounds.

- B—74.9 lb.-in.
- C—77.6 lb.-in.



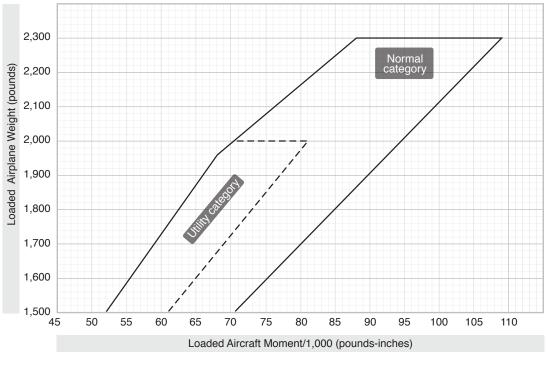


Figure 1-6

40. (Refer to Figures 1-7 and 1-8.) Determine if the airplane weight and balance is within limits.

Front seat occupants	340 lb
Rear seat occupants	295 lb
Fuel, main tanks	44 gal
Baggage	56 lb

- A—20 pounds overweight, CG aft of aft limits.
- B—20 pounds overweight, CG within limits.
- C-20 pounds overweight, CG forward of forward limits.

	Useful l	oa	ad we	eight	s and	d mo	ment	s		
Baggag	e or 5th		Occupants							
seat occupant			Front seats ARM 85			Rear seats ARM 121				
ARM	140 Moment		Wei	ght	Mon 10		Wei	ght	Mon 10	
Weight	100		12	20	10)2	12	20	14	15
10	14		13	0	11	0	13	80	15	57
20	28		14	-0	11	9	14	10	16	69
30	42		15	0	12	28	15	0	18	32
40	56		16	0	13	36 16		0	19	94
50	70		170		14	44 17		0	20)6
60	84		180		15	53 18		80	21	18
70	98		190		16	32 19		0	23	30
80	112		200		17	70 20		00	24	12
90	126				- 1	leahl	e fuel	1)
100	140									ļ
110	154				Main v	ving ta	nks AR			
120	168			Gal	lons	We	ight		ment 00	
130	182				 5	3	0	2	22	1
140	196			1	0	6	0	4	15	
150	210			1	5	9	0	6	88	
160	224			2	20	12	20	9	90	
170	238			2	25	15	50	1	12	
180	252			3	80	18	30	1	35	
190	266			3	35	2	10	1	58	

Auxiliary	wing tanks	tanks ARM 94				
Gallons	Weight	Moment 100				
5	30	28				
10	60	56				
15	90	85				
19	114	107				

Empty weight~2,015 MOM/100~1,554 Moment limits vs weight Moment limits are based on the following weight and center of gravity limit data (landing gear

	*Oil			
Quarts	Weight	Moment 100		
10	19	5		
*Included in basic empty weight.				

it CG limit
84.7
85.7
85.7

Figure 1-7

Moment limits vs weight (continued)

Weight	Minimum Moment 100	Maximum Moment 100	Weight	Minimum Moment 100	Maximum Moment 100
2,100	1,617	1,800	2,500	1,932	2,143
2,110	1,625	1,808	2,510	1,942	2,151
2,120	1,632	1,817	2,520	1,953	2,160
2,130	1,640	1,825	2,530	1,963	2,168
2,140	1,648	1,834	2,540	1,974	2,176
2,150	1,656	1,843	2,550	1,984	2,184
2,160	1,663	1,851	2,560	1,995	2,192
2,170	1,671	1,860	2,570	2,005	2,200
2,180	1,679	1,868	2,580	2,016	2,208
2,190	1,686	1,877	2,590	2,026	2,216
2,200	1,694	1,885	2,600	2,037	2,224
2,210	1,702	1,894	2,610	2,048	2,232
2,220	1,709	1,903	2,620	2,058	2,239
2,230	1,717	1,911	2,630	2,069	2,247
2,240	1,725	1,920	2,640	2,080	2,255
2,250	1,733	1,928	2,650	2,090	2,263
2,260	1,740	1,937	2,660	2,101	2,271
2,270	1,748	1,945	2,670	2,112	2,279
2,280	1,756	1,954	2,680	2,123	2,287
2,290	1,763	1,963	2,690	2,133	2,295
2,300	1,771	1,971	2,700	2,144	2,303
2,310	1,779	1,980	2,710	2,155	2,311
2,320	1,786	1,988	2,720	2,166	2,319
2,330	1,794	1,997	2,730	2,177	2,326
2,340	1,802	2,005	2,740	2,188	2,334
2,350	1,810	2,014	2,750	2,199	2,342
2,360	1,817	2,023	2,760	2,210	2,350
2,370	1,825	2,031	2,770	2,221	2,358
2,380	1,833	2,040	2,780	2,232	2,366
2,390	1,840	2,048	2,790	2,243	2,374
2,400	1,848	2,057	2,800	2,254	2,381
2,410	1,856	2,065	2,810	2,265	2,389
2,420	1,863	2,074	2,820	2,276	2,397
2,430	1,871	2,083	2,830	2,287	2,405
2,440	1,879	2,091	2,840	2,298	2,413
2,450	1,887	2,100	2,850	2,309	2,421
2,460	1,894	2,108	2,860	2,320	2,428
2,470	1,902	2,117	2,870	2,332	2,436
2,480	1,911	2,125	2,880	2,343	2,444
2,490	1,921	2,134	2,890	2,354	2,452
,	1 ,,=-	, -	2,900	2,365	2,460
			2,910	2,377	2,468
			2,920	2,388	2,475
			2,930	2,399	2,483
			2,940	2,411	2,491
			,,	2,422	2,499

Figure 1-8

- **41.** How is engine operation controlled on an engine equipped with a constant-speed propeller?
 - A—The throttle controls power output as registered on the manifold pressure gauge and the propeller control regulates engine RPM.
 - B—The throttle controls power output as registered on the manifold pressure gauge and the propeller control regulates a constant blade angle.
 - C—The throttle controls engine RPM as registered on the tachometer and the mixture control regulates the power output.
- **42.** A precaution for the operation of an engine equipped with a constant-speed propeller is to
 - A—avoid high RPM settings with high manifold pressure.
 - B—avoid high manifold pressure settings with low RPM
 - C—always use a rich mixture with high RPM settings.
- **43.** What should be the first action after starting an aircraft engine?
 - A—Adjust for proper RPM and check for desired indications on the engine gauges.
 - B—Place the magneto or ignition switch momentarily in the OFF position to check for proper grounding.
 - C—Test each brake and the parking brake.
- **44.** The most important rule to remember in the event of a power failure after becoming airborne is to
 - A—immediately establish the proper gliding attitude and airspeed.
 - B—quickly check the fuel supply for possible fuel exhaustion.
 - C—determine the wind direction to plan for the forced landing.
- **45.** At what altitude shall the altimeter be set to 29.92, when climbing to cruising flight level?
 - A—14,500 feet MSL.
 - B—18.000 feet MSL.
 - C-24,000 feet MSL.

- **46.** What is density altitude?
 - A—The height above the standard datum plane.
 - B—The pressure altitude corrected for nonstandard temperature.
 - C—The altitude read directly from the altimeter.
- **47.** What effect does high density altitude have on aircraft performance?
 - A—It increases engine performance.
 - B—It reduces climb performance.
 - C—It increases takeoff performance.
- **48.** (Refer to Figure 1-9.) What is the effect of a temperature increase from 26 to 50°F on the density altitude if the pressure altitude remains at 5.000 feet?
 - A—1,200-foot increase.
 - B—1,400-foot increase.
 - C—1,650-foot increase.
- **49.** Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?
 - A—Low temperature, low relative humidity, and low density altitude.
 - B—High temperature, low relative humidity, and low density altitude.
 - C—High temperature, high relative humidity, and high density altitude.
- **50.** What effect does high density altitude, as compared to low density altitude, have on propeller efficiency and why?
 - A—Efficiency is increased due to less friction on the propeller blades.
 - B—Efficiency is reduced because the propeller exerts less force at high density altitudes than at low density altitudes.
 - C—Efficiency is reduced due to the increased force of the propeller in the thinner air.

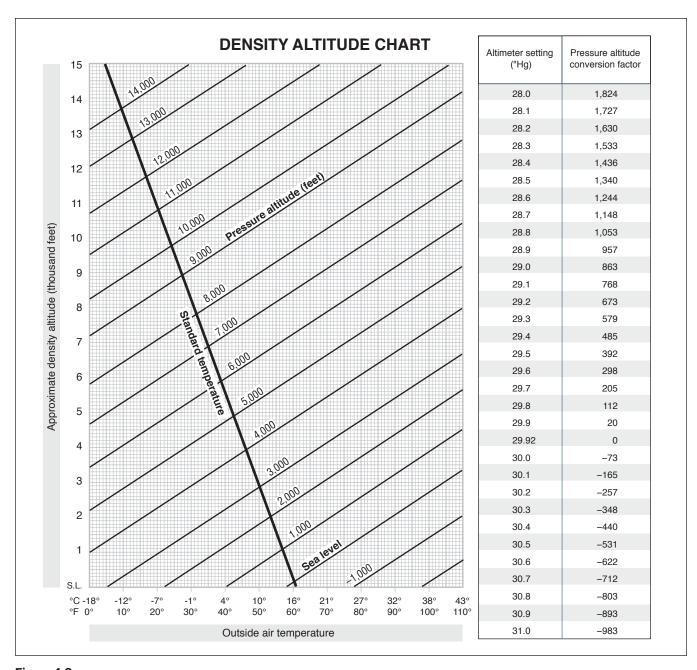


Figure 1-9

- **51.** What must a pilot be aware of as a result of ground effect?
 - A—Wingtip vortices increase creating wake turbulence problems for arriving and departing aircraft.
 - B—Induced drag decreases; therefore, any excess speed at the point of flare may cause considerable floating.
 - C—A full stall landing will require less up elevator deflection than would a full stall when done free of ground effect.
- **52.** (Refer to Figure 1-10.) What is the expected fuel consumption for a 1,000-nautical mile flight under the following conditions?

Pressure altitude	8,000 ft
Temperature	22°C
Manifold pressure	20.8" Hg
Wind	Calm

A-60.2 gallons.

B—70.1 gallons.

C—73.2 gallons.

53. (Refer to Figure 1-11.) Determine the total distance required to land.

OAT	32°F
Pressure altitude	8,000 ft
Weight	2,600 lb
Headwind component	
Obstacle	50 ft
A—850 feet	

A—850 feet.

B-1,400 feet.

C—1,750 feet.

54. (Refer to Figure 1-12.) Determine the total distance required for takeoff to clear a 50-foot obstacle.

OAT	Std
Pressure altitude	Sea level
Takeoff weight	2,700 lb
Headwind component	-

A—1,000 feet.

B-1,400 feet.

C-1,700 feet.

Cruise Power Settings

65% Maximum continuous power (or full throttle 2,800 pounds)

Dunna			ISA	–20 °C	(–36	6 °F)					Sta	ndard	day (ISA)					ISA	+20 °C	(+36	°F)		
Press ALT.	Ю	АТ	Engine speed	MAN. press		l flow engine	TA	AS	Ю	AT	Engine speed	MAN. press		l flow engine	TA	AS	10	AT	Engine speed	MAN. press		l flow engine	TA	4S
Feet	°F	°C	RPM	IN HG	PSI	GPH	KTS	MPH	°F	°C	RPM	IN HG	PSI	GPH	KTS	MPH	°F	°C	RPM	IN HG	PSI	GPH	KTS	MPH
SL	27	-3	2,450	20.7	6.6	11.5	147	169	63	17	2,450	21.2	6.6	11.5	150	173	99	37	2,450	21.8	6.6	11.5	153	176
2,000	19	-7	2,450	20.4	6.6	11.5	149	171	55	13	2,450	21.0	6.6	11.5	153	176	91	33	2,450	21.5	6.6	11.5	156	180
4,000	12	-11	2,450	20.1	6.6	11.5	152	175	48	9	2,450	20.7	6.6	11.5	156	180	84	29	2,450	21.3	6.6	11.5	159	183
6,000	5	-15	2,450	19.8	6.6	11.5	155	178	41	5	2,450	20.4	6.6	11.5	158	182	79	26	2,450	21.0	6.6	11.5	161	185
8,000	-2	-19	2,450	19.5	6.6	11.5	157	181	36	2	2,450	20.2	6.6	11.5	161	185	72	22	2,450	20.8	6.6	11.5	164	189
10,000	-8	-22	2,450	19.2	6.6	11.5	160	184	28	-2	2,450	19.9	6.6	11.5	163	188	64	18	2,450	20.3	6.5	11.4	166	191
12,000	-15	-26	2,450	18.8	6.4	11.5	162	186	21	-6	2,450	18.8	6.1	10.9	163	188	57	14	2,450	18.8	5.9	10.6	163	188
14,000	-22	-30	2,450	17.4	5.8	10.5	159	183	14	-10	2,450	17.4	5.6	10.1	160	184	50	10	2,450	17.4	5.4	9.8	160	184
16,000	-29	-34	2,450	16.1	5.3	9.7	156	180	7	-14	2,450	16.1	5.1	9.4	156	180	43	6	2,450	16.1	4.9	9.1	155	178

Note: 1. Full throttle manifold pressure settings are approximate.

2. Shaded area represents operation with full throttle.

Figure 1-10

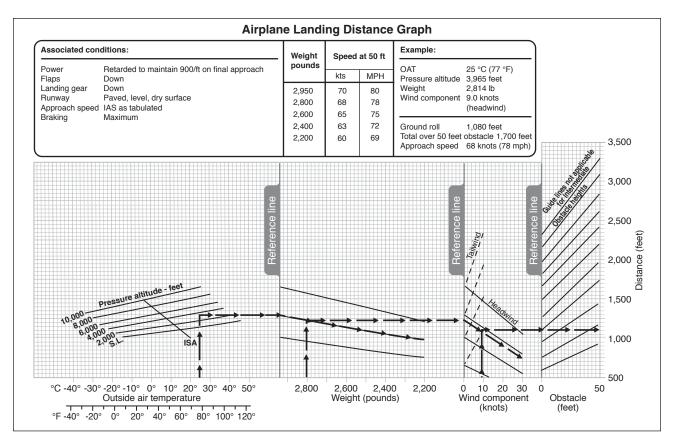


Figure 1-11

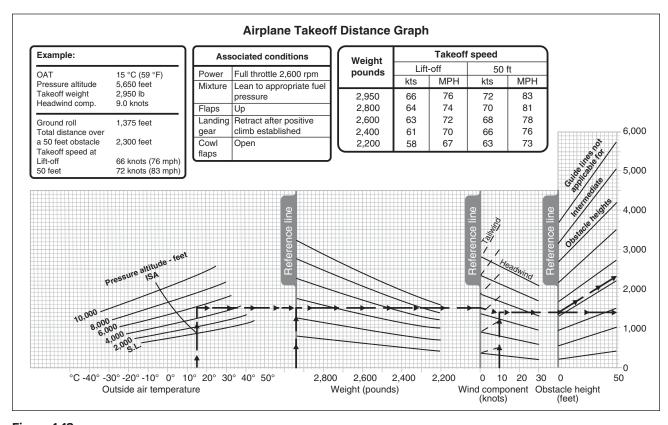


Figure 1-12

Stage 2 Exam

- **1.** (Refer to Figure 1-9 on Page 61.) Determine the pressure altitude at an airport that is 3,563 feet MSL with an altimeter setting of 29.96.
 - A—3,527 feet MSL.
 - B—3,556 feet MSL.
 - C—3,639 feet MSL.
- **2.** If a pilot changes the altimeter setting from 30.11 to 29.96, what is the approximate change in indication?
 - A—Altimeter will indicate .15" Hg higher.
 - B—Altimeter will indicate 150 feet higher.
 - C—Altimeter will indicate 150 feet lower.
- **3.** Floating caused by the phenomenon of ground effect will be most realized during an approach to land when at
 - A—less than the length of the wingspan above the
 - B—twice the length of the wingspan above the surface.
 - C—a higher-than-normal angle of attack.
- **4.** (Refer to Figure 2-1.) An aircraft departs an airport in the eastern daylight time zone at 0945 EDT for a 2-hour flight to an airport located in the central daylight time zone. The landing should be at what coordinated universal time?
 - A—1345Z.
 - B—1445Z.
 - C—1545Z.
- **5.** (Refer to Figure 2-1.) An aircraft departs an airport in the mountain standard time zone at 1615 MST for a 2-hour 15-minute flight to an airport located in the Pacific standard time zone. The estimated time of arrival at the destination airport should be
 - A-1630 PST.
 - B-1730 PST.
 - C—1830 PST.

- **6.** (Refer to Map 1, area 4, on Page 93.) The CTAF/ UNICOM frequency at Jamestown Airport is
 - A-122.0 MHz.
 - B—123.0 MHz.
 - C—123.6 MHz.
- **7.** When outbound from an airport without a UNICOM station or tower, the pilot should self-announce on frequency
 - A—1227
 - B-122.9
 - C 122.8
- **8.** (Refer to Map 2, area 2, on Page 94; and Figure 2-2.) At Coeur D'Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to monitor airport traffic?
 - A-119.1 MHz.
 - B-122.1/108.8 MHz.
 - C—122.8 MHz.
- **9.** (Refer to Map 2, area 2, on Page 94; and Figure 2-2.) What is the correct UNICOM frequency to be used at Coeur D'Alene to request fuel?
 - A-119.1 MHz.
 - B-122.1/108.8 MHz.
 - C—122.8 MHz.
- **10.** (Refer to Map 2, on Page 94; area 2; and Figure 2-2.) At Coeur D'Alene, which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to self-announce position and intentions?
 - A—122.05 MHz.
 - B-122.1/108.8 MHz.
 - C—122.8 MHz.

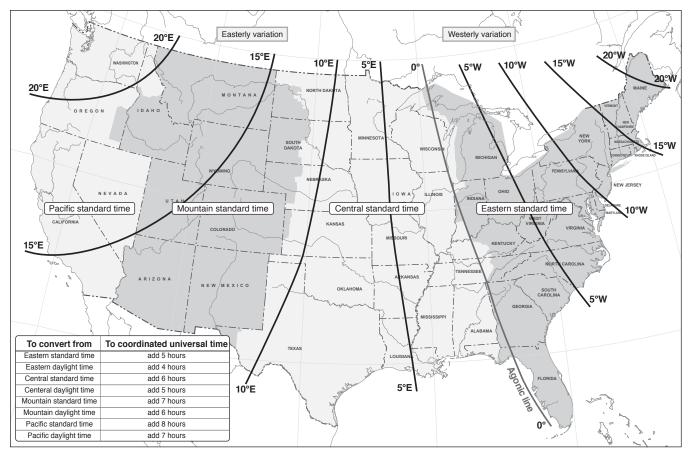


Figure 2-1

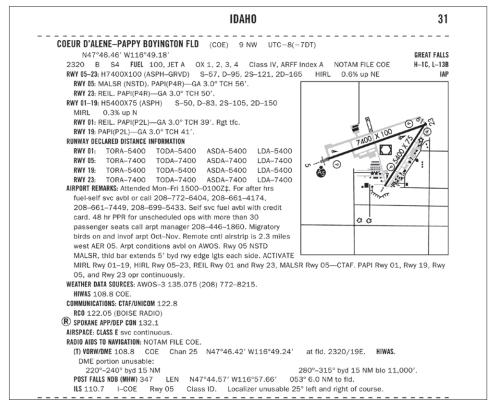


Figure 2-2

- 11. When flying HAWK N666CB, the proper phraseology for initial contact with McAlester Flight Service is
 - A—"MC ALESTER RADIO, HAWK SIX SIX SIX CHARLIE BRAVO, RECEIVING ARDMORE VORTAC, OVER."
 - B—"MC ALESTER STATION, HAWK SIX SIX SIX CEE BEE, RECEIVING ARDMORE VORTAC, OVER."
 - C—"MC ALESTER FLIGHT SERVICE STATION, HAWK NOVEMBER SIX CHARLIE BRAVO, RECEIVING ARDMORE VORTAC, OVER."
- **12.** The correct method of stating 10,500 feet MSL to ATC is
 - A—"TEN THOUSAND, FIVE HUNDRED FEET."
 - B—"TEN POINT FIVE."
 - C—"ONE ZERO THOUSAND, FIVE HUNDRED."
- **13.** (Refer to Map 2, area 3, on Page 94.) Determine the approximate latitude and longitude of Shoshone County Airport.
 - A-47°02'N-116°11'W.
 - B-47°33'N-116°11'W.
 - C-47°32'N-116°41'W.
- **14.** (Refer to Map 3, area 2, on Page 95.) The elevation of the Chesapeake Municipal Airport is
 - A—19 feet.
 - B—36 feet.
 - C—360 feet.
- **15.** (Refer to Map 4 on Page 96.) Which public use airports depicted are indicated as having fuel?
 - A—Minot and Mercer County Regional Airport.
 - B—Minot and Garrison.
 - C—Mercer County Regional Airport and Garrison.

- **16.** (Refer to Map 4 on Page 96.) Determine the magnetic heading for a flight from Mercer County Regional Airport (area 3) to Minot International (area 1). The wind is from 330° at 25 knots, the true airspeed is 100 knots, and the magnetic variation is 11° east.
 - A-002°.
 - B-012°.
 - C—352°.
- **17.** (Refer to Map 2 on Page 94.) What is the estimated time en route for a flight from St. Maries Airport (area 4) to Priest River Airport (area 1)? The wind is from 300° at 14 knots and the true airspeed is 90 knots. Add 3 minutes for climb-out.
 - A—38 minutes
 - B—43 minutes.
 - C—48 minutes.
- **18.** (Refer to Map 3 on Page 95.) What is your approximate position on low altitude airway Victor 1, southwest of Norfolk (area 1), if the VOR receiver indicates you are on the 340° radial of Elizabeth City VOR (area 3)?
 - A—15 nautical miles from Norfolk VORTAC.
 - B—18 nautical miles from Norfolk VORTAC.
 - C—23 nautical miles from Norfolk VORTAC.
- **19.** (Refer to Map 5 on Page 97.) While en route on Victor 185, a flight crosses the 248° radial of Allendale VOR at 0951 and then crosses the 216 radial of Allendale VOR at 1000. What is the estimated time of arrival at Savannah VORTAC?
 - A—1023.
 - B—1028.
 - C—1036.
- **20.** (Refer to Map 6 on Page 98.) Estimate the time en route from Addison (area 2) to Redbird (area 3). The wind is from 300° at 15 knots, the true airspeed is 120 knots, and the magnetic variation is 7° east.
 - A—8 minutes.
 - B—11 minutes.
 - C—14 minutes.

- **21.** After landing at a tower-controlled airport, when should the pilot contact ground control?
 - A—When advised by the tower to do so.
 - B—Prior to turning off the runway.
 - C—After reaching a taxiway that leads directly to the parking area.
- **22.** If instructed by ground control to taxi to Runway 9, the pilot may proceed
 - A—via taxiways and across runways to, but not onto, Runway 9.
 - B—to the next intersecting runway where further clearance is required.
 - C—via taxiways and across runways to Runway 9, where an immediate takeoff may be made.
- **23.** Automatic Terminal Information Service (ATIS) is the continuous broadcast of recorded information concerning
 - A—pilots of radar-identified aircraft whose aircraft is in dangerous proximity to terrain or to an obstruction.
 - B—nonessential information to reduce frequency congestion.
 - C—noncontrol information in selected highactivity terminal areas.
- **24.** An ATC radar facility issues the following advisory to a pilot flying on a heading of 360°:

"TRAFFIC 10 O'CLOCK, 2 MILES, SOUTHBOUND..."

Where should the pilot look for this traffic?

- A—Northwest.
- B—Northeast.
- C—Southwest.

- **25.** If the aircraft's radio fails, what is the recommended procedure when landing at a controlled airport?
 - A—Observe the traffic flow, enter the pattern, and look for a light signal from the tower.
 - B—Enter a crosswind leg and rock the wings.
 - C—Flash the landing lights and cycle the landing gear while circling the airport.
- **26.** When activated, an ELT transmits on
 - A—123.0 and 119.0 MHz.
 - B-121.5 and 243.0 MHz.
 - C-118.0 and 118.8 MHz.
- **27.** When making routine transponder code changes, pilots should avoid inadvertant selection of which codes?

A-3100, 7600, 7700.

B-7500, 7600, 7700.

C-7000, 7600, 7700.

- **28.** From whom should a departing VFR aircraft request radar traffic information during ground operations?
 - A—Ground control, on initial contact.
 - B—Tower, just before takeoff.
 - C—Clearance delivery.
- **29.** Frost on the wings of an airplane may
 - A—cause the airplane to become airborne with a lower angle of attack and at a lower indicated airspeed.
 - B—make it difficult or impossible to become airborne.
 - C—present no problems since frost will blow off when the airplane starts moving during takeoff.

- **30.** How should the controls be held while taxiing a tricycle-gear equipped airplane into a left quartering headwind as depicted by A in Figure 2-3?
 - A—Left aileron up, neutral elevator.
 - B—Left aileron down, neutral elevator.
 - C—Left aileron up, down elevator.

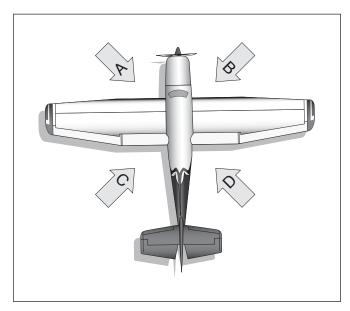


Figure 2-3

- **31.** Wing-tip vortices, the dangerous turbulence that might be encountered behind a large aircraft, are created only when that aircraft is
 - A—heavily loaded.
 - B—developing lift.
 - C—using high power settings.
- **32.** When landing behind a large aircraft, the pilot should avoid wake turbulence by staving
 - A—above the large aircraft's final approach path and landing beyond the large aircraft's touchdown point.
 - B—below the large aircraft's final approach path and landing before the large aircraft's touchdown point.
 - C—above the large aircraft's final approach path and landing before the large aircraft's touchdown point.

- **33.** (Refer to Figure 2-4.) The segmented circle indicates that the airport traffic is
 - A—left-hand for Runway 35 and right-hand for Runway 17.
 - B—left-hand for Runway 17 and right-hand for Runway 35.
 - C—right-hand for Runway 9 and left-hand for Runway 27.

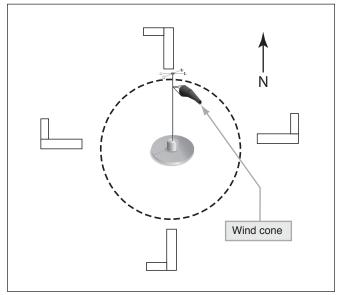


Figure 2-4

- **34.** An airport's rotating beacon operated during daylight hours indicates
 - A—there are obstructions on the airport.
 - B—that weather at the airport located in Class D airspace is below basic VFR weather minimums.
 - C—the Air Traffic Control tower is not in operation.
- **35.** When approaching to land on a runway served by a visual approach slope indicator (VASI), the pilot shall
 - A—maintain an altitude that captures the glide slope at least 2 miles downwind from the runway threshold.
 - B—maintain an altitude at or above the glide slope.
 - C—remain on the glide slope and land between the two-light bar.

- **36.** (Refer to Figure 2-5.) That portion of the runway identified by the letter A may be used for
 - A—landing.
 - B—taxiing and takeoff.
 - C—taxiing and landing.

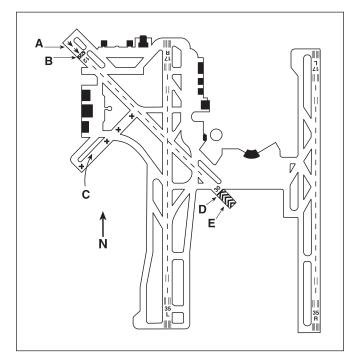


Figure 2-5

- **37.** (Refer to Figure 2-6.) If the wind is as shown by the landing direction indicator, the pilot should land on
 - A—Runway 18 and expect a crosswind from the right.
 - B—Runway 22 directly into the wind.
 - C—Runway 36 and expect a crosswind from the right.

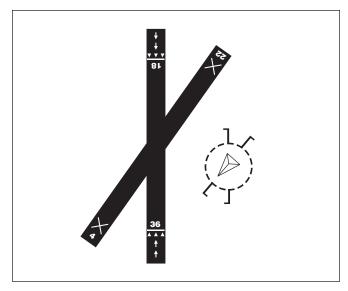


Figure 2-6

- **38.** The numbers 9 and 27 on a runway indicate that the runway is oriented approximately
 - A-009° and 027° true.
 - B—090° and 270° true.
 - C—090° and 270° magnetic.
- **39.** If instructed by ground control to taxi to Runway 9, the pilot may proceed
 - A—via taxiways and across runways to, but not onto, Runway 9.
 - B—to the next intersecting runway where further clearance is required.
 - C—via taxiways and across runways to Runway 9, where an immediate takeoff may be made.
- **40.** While on final approach for landing, an alternating green and red light followed by a flashing red light is received from the control tower. Under these circumstances, the pilot should
 - A—discontinue the approach, fly the same traffic pattern and approach again, and land.
 - B—exercise extreme caution and abandon the approach, realizing the airport is unsafe for landing.
 - C—abandon the approach, circle the airport to the right, and expect a flashing white light when the airport is safe for landing.

- **41.** Which is the correct traffic pattern departure procedure to use at a noncontrolled airport?
 - A—Depart in any direction consistent with safety, after crossing the airport boundary.
 - B—Make all turns to the left.
 - C—Comply with any FAA traffic pattern established to the airport.
- **42.** Ceiling, as used in weather reports, is defined as the height above the Earth's surface of the
 - A—lowest reported obscuration and the highest layer of clouds reported as overcast.
 - B—lowest layer of clouds reported as broken or overcast and not classified as thin.
 - C—lowest layer of clouds reported as scattered, broken, or thin.
- **43.** A temperature inversion would most likely result in which weather condition?
 - A—Good visibility in the lower levels of the atmosphere and poor visibility above an inversion aloft.
 - B—An increase in temperature as altitude is increased.
 - C—A decrease in temperature as altitude is increased.
- **44.** What are the standard temperature and pressure values for sea level?
 - A-15°C and 29.92" Hg.
 - B—59°C and 1013.2 millibars.
 - C—59°C and 29.92 millibars.
- **45.** What is meant by the term dew point?
 - A—The temperature at which condensation and evaporation are equal.
 - B—The temperature at which dew will always
 - C—The temperature to which air must be cooled to become saturated
- **46.** Clouds, fog, and dew will always form when
 - A—water vapor condenses.
 - B—relative humidity reaches or exceeds 100
 - C—the temperature and dew point are equal.

- **47.** Which of the following would decrease the stability of an air mass?
 - A—Warming from below.
 - B—Cooling from below.
 - C—Decrease in water vapor.
- **48.** If an unstable air mass is forced upward, what type of clouds can be expected?
 - A—Layer-like clouds with little vertical development.
 - B—Layer-like clouds with considerable associated turbulence.
 - C—Clouds with considerable vertical development and associated turbulence
- **49.** An almond or lens-shaped cloud which appears stationary, but which may contain wind of 50 kts. or more, is referred to as
 - A—an inactive frontal cloud.
 - B—a funnel cloud.
 - C—a lenticular cloud.
- **50.** Which clouds have the greatest turbulence?
 - A—Towering cumulus.
 - B—Cumulonimbus.
 - C—Nimbostratus
- **51.** What are characteristics of unstable air?
 - A—Turbulence and good surface visibility.
 - B—Turbulence and poor surface visibility.
 - C—Nimbostratus clouds and good surface visibility.
- **52.** Hazardous wind shear is commonly encountered near the ground
 - A—near thunderstorms and during periods when the wind velocity is stronger than 35 knots.
 - B—during periods when the wind velocity is stronger than 35 knots and near mountain vallevs.
 - C—during periods of strong temperature inversion and near thunderstorms.

- **53.** One in-flight condition necessary for structural icing to form is
 - A—small temperature/dew point spread.
 - B—stratiform clouds.
 - C—visible moisture.
- **54.** Thunderstorms which generally produce the most intense hazard to aircraft are
 - A—steady-state thunderstorms.
 - B—warm front thunderstorms.
 - C—squall line thunderstorms.
- **55.** If there is thunderstorm activity in the vicinity of an airport at which you plan to land, which hazardous and invisible atmospheric phenomenon might be expected on the landing approach?
 - A-St. Elmo's fire.
 - B—Wind shear turbulence.
 - C—Virga.
- **56.** Upon encountering severe turbulence, which condition should the pilot attempt to maintain?
 - A—Constant altitude.
 - B—Constant airspeed (V_{Δ}) .
 - C—Level flight altitude.
- **57.** In which situation is advection fog most likely to form?
 - A—A warm, moist air mass on the windward side of mountains.
 - B—An air mass moving inland from the coast in winter.
 - C—A light breeze blowing colder air out to sea.

- **58.** To best determine forecast weather conditions between weather reporting stations, the pilot should refer to
 - A—pilot reports.
 - B—weather maps.
 - C—Area forecasts.
- **59.** To get a complete weather briefing for the planned flight, the pilot should request
 - A—an outlook briefing.
 - B—a general briefing.
 - C—a standard briefing.
- **60.** SIGMETs are issued as a warning of weather conditions hazardous
 - A-to all aircraft.
 - B—only to light aircraft operations.
 - C—particularly to heavy aircraft.
- **61.** (Refer to Figure 2-7.) What wind is forecast for STL at 18,000 feet?
 - A—230° true at 56 knots.
 - B—235° true at 06 knots.
 - C—235° magnetic at 06, peak gusts to 16 knots.
- **62.** (Refer to Figure 2-8.) What weather is forecast over New Mexico during the first 12 hours?
 - A—Ceiling 1,000 to 3,000 feet and/or visibility 3 to 5 miles with intermittent thundershowers and rain showers.
 - B—IFR with moderate or greater turbulence over the coastal areas.
 - C—Moderate or greater turbulence from the surface up to 18,000 feet.

FB WBC 151745
DATA BASED ON 151200Z
VALID 1600Z FOR USE 1800-0300Z. TEMPS NEG ABV 24000

FT 3000 6000 9000 12000

FT	3000	6000	9000	12000	18000	24000	30000	34000	39000
ALS			2420	2635-08	2535-18	2444-30	245945	246755	246862
AMA		2714	2725+00	2625-04	2531-15	2542-27	265842	256352	256762
DEN			2321-04	2532-08	2434-19	2441-31	235347	236056	236262
HLC		1707-01	2113-03	2219-07	2330-17	2435-30	244145	244854	245561
MKC	0507	2006+03	2215-01	2322-06	2338-17	2348-29	236143	237252	238160
STL	2113	2325+07	2332+02	2339-04	2356-16	2373-27	239440	730649	731960

Figure 2-7

- **63.** (Refer to Figure 2-9.) Which of the reporting stations have VFR weather?
 - A—All.
 - B—KINK, KBOI, and KJFK.
 - C—KINK, KBOI, and KLAX.

- **64.** (Refer to Figure 2-9.) What are the current conditions depicted for Chicago Midway Airport (KMDW)?
 - A—Sky 700 feet overcast, visibility 1-1/2 SM, rain
 - B—Sky 7000 feet overcast, visibility 1-1/2 SM,
 - C—Sky 700 feet overcast, visibility 11, occasionally 2 SM, with rain.

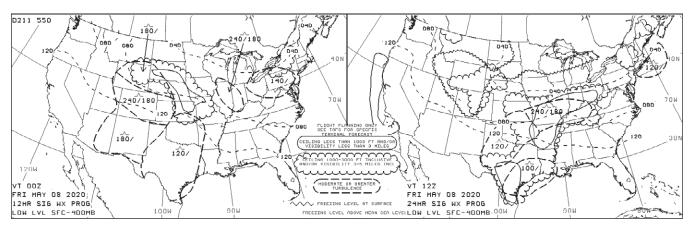


Figure 2-8

METAR KINK 121845Z 11012G18KT 15SM SKC 25/17 A3000

METAR KBOI 121854Z 13004KT 30SM SCT150 17/6 A3015

METAR KLAX 121852Z 25004KT 6SM BR SCT007 SCT250 16/15 A2991

SPECI KMDW 121856Z 32005KT 1 1/2SM RA OVC007 17/16 A2980 RMK RAB35

SPECI KJFK 121853Z 18004KT 1/2SM FG R04/2200 OVC005 20/18 A3006

Figure 2-9

- **65.** (Refer to Figure 2-10.) The base and tops of the overcast layer reported by a pilot are
 - A—1,800 feet MSL and 5,500 feet MSL.
 - B—5,500 feet AGL and 7,200 feet MSL.
 - C-7,200 feet MSL and 8,900 feet MSL.
- **66.** (Refer to Figure 2-11.) During the time period from 0600Z to 0800Z, what significant weather is forecast for KOKC?
 - A—Wind -210° at 15 knots.
 - B—Visibility possibly 6 statute miles with scattered clouds at 4,000 feet.
 - C—No significant weather is forecast for this time period.

UA/OV KOKC-KTUL/TM 1800/FL 120/TP BE90//SK BKN018-TOP055/OVC072-TOP089/CLR ABV/TA M7/WV 08021/TB LGT 055-072/IC LGT-MOD RIME 072-089

Figure 2-10

TAF	
KMEM	121720Z 1218/1324 20012KT 5SM HZ BKN030 PROB40 1222/1302 1SM TSRA OVC008CB FM122200 33015G20KT P6SM BKN015 OVC025 PROB40 1222/1302 3SM SHRA FM130200 35012KT OVC008 PROB40 1302/1305 2SM-RASN BECMG 1306/1308 02008KT BKN012 BECMG 1310/1312 00000KT 3SM BR SKC TEMPO 1212/1214 1/2SM FG FM131600 VRB06KT P6SM SKC=
KOKC	051130Z 0512/0618 14008KT 5SM BR BKN030 TEMPO 0513/0516 1 1/2SM BR FM051600 18010KT P6SM SKC BECMG 0522/0524 20013G20KT 4SM SHRA OVC020 PROB40 0600/0606 2SM TSRA OVC008CB BECMG 0606/0608 21015KT P6SM SCT040=

Figure 2-11

Stage 3 Exam

- **1.** What type of oxygen should be used to replenish an aircraft's oxygen for high altitude flights?
 - A—Medical oxygen.
 - B—Welder's oxygen.
 - C—Aviation breathing oxygen.
- **2.** (Refer to Map 1 on Page 93.) What hazards to aircraft may exist in areas such as Devils Lake East MOA?
 - A—Unusual, often invisible, hazards to aircraft such as artillery firing.
 - B—High density military training activities.
 - C—Parachute jump operations.
- **3.** (Refer to Map 1, area 5, on Page 93.) The airspace overlying and within 5 miles of Barnes County Airport is
 - A—Class D airspace from the surface to the floor of the overlying Class E airspace.
 - B—Class E airspace from the surface to 1,200 feet MSL.
 - C—Class G airspace from the surface to 700 feet AGL.
- **4.** (Refer to Map 1, area 2, on Page 93.) The visibility and cloud clearance requirements to operate VFR during daylight hours over Cooperstown Airport between 1,200 feet AGL and 10,000 feet MSL are
 - A—1 mile and clear of clouds.
 - B—1 mile and 1,000 feet above, 500 feet below, and 2,000 feet horizontally from clouds.
 - C—3 miles and 1,000 feet above, 500 feet below, and 2,000 feet horizontally from clouds.
- **5.** (Refer to Map 3, area 1, on Page 95.) What minimum radio equipment is required to land and take off at Norfolk International?
 - A—Mode C transponder and omnireceiver.
 - B—Mode C transponder and two-way radio.
 - C—Mode C transponder, omnireceiver, and DME.

- **6.** (Refer to Map 2, area 3, on Page 94.) The vertical limits of that portion of Class E airspace designated as a Federal Airway over Magee Airport are
 - A—1,200 feet AGL to 10,000 feet MSL.
 - B—7,500 feet MSL to 12,500 feet MSL.
 - C—1,200 feet MSL to 17,999 feet MSL.
- **7.** What minimum radio equipment is required for VFR operation within Class B airspace?
 - A—Two-way radio communications equipment and a 4096-code transponder.
 - B—Two-way radio communications equipment, a 4096-code transponder, and an encoding altimeter.
 - C—Two-way radio communications equipment, a 4096-code transponder, an encoding altimeter, and a VOR or TACAN receiver.
- **8.** (Refer to Map 5, area 3, on Page 97.) What is the floor of the Savannah Class C airspace at the outer circle?
 - A-1,200 feet AGL.
 - B-1,300 feet MSL.
 - C—1,700 feet MSL.
- **9.** (Refer to Map 3, area 2, on Page 95.) The flag symbol at Lake Drummond represents a
 - A—compulsory reporting point for Norfolk Class C airspace.
 - B—compulsory reporting point for Hampton Roads Airport.
 - C—visual checkpoint used to identify position for initial callup to Norfolk Approach Control.
- **10.** What special check should be made on an aircraft during preflight after it has been stored an extended period of time?
 - A—ELT batteries and operation.
 - B—Condensation in the fuel tanks.
 - C—Damage or obstruction caused by animals, birds, or insects.

- **11.** Under what condition, if any, may civil pilots enter a restricted area?
 - A—With the controlling agency's authorization.
 - B—On airways with ATC clearance.
 - C—Under no condition.
- **12.** All operations within Class C airspace must be in
 - A—accordance with instrument flight rules.
 - B—compliance with ATC clearances and instructions.
 - C—an aircraft equipped with a 4096-code transponder with Mode C encoding capability.
- **13.** How should a VFR flight plan be closed at the completion of the flight at a controlled airport?
 - A—The tower will automatically close the flight plan when the aircraft turns off the runway.
 - B—The pilot must close the flight plan with the nearest FSS of other FAA facility upon landing.
 - C—The tower will relay the instructions to the nearest FSS when the aircraft contacts the tower for landing.
- **14.** (Refer to Figure 3-1.) What is the recommended communications procedure for landing at Lincoln Municipal during the hours when the tower is not in operation?
 - A—Monitor airport traffic and announce your position and intentions on 118.5 MHz.
 - B—Contact UNICOM on 122.95 MHz for traffic advisories.
 - C—Monitor ATIS for airport conditions, then announce your position on 122.95 MHz.
- **15.** The most effective method of scanning for other aircraft for collision avoidance during nighttime hours is to use
 - A—regularly spaced concentration on the 3-, 9-, and 12-o'clock positions.
 - B—a series of short, regularly spaced eye movements to search each 30-degree sector.
 - C—peripheral vision by scanning small sectors and utilizing offcenter viewing.

- **16.** How can you determine if another aircraft is on a collision course with your aircraft?
 - A—The other aircraft will always appear to get larger and closer at a rapid rate.
 - B—The nose of each aircraft is pointed at the same point in space.
 - C—There will be no apparent relative motion between your aircraft and the other aircraft.
- 17. Prior to starting each maneuver, pilots should
 - A—check altitude, airspeed, and heading indications.
 - B—visually scan the entire area for collision avoidance.
 - C—announce their intentions on the nearest CTAF.
- **18.** How long does the Airworthiness Certificate of an aircraft remain valid?
 - A—As long as the aircraft has a current Registration Certificate.
 - B—Indefinitely, unless the aircraft suffers major damage.
 - C—As long as the aircraft is maintained and operated as required by Federal Aviation Regulations.
- **19.** FAA advisory circulars (some free, others at cost) are available to all pilots and are obtained by
 - A—distribution from the nearest FAA district office.
 - B—ordering those desired from the Government Printing Office.
 - C—subscribing to the Federal Register.
- **20.** To preclude the effects of hypoxia,
 - A—avoid flying above 10,000 ft. MSL for prolonged periods without breathing supplemental oxygen.
 - B—rely on your body's built-in alarm system to warn when you are not getting enough oxygen.
 - C—try swallowing, yawning, or holding the nose and mouth shut and forcibly try to exhale.

NEBRASKA 271

```
LINCOLN (LNK) 4 NW UTC-6(-5DT) N40°51.05′ W96°45.55′
                                                                                                  OMAHA
  1219 B S4 FUEL 100LL, JET A TPA—See Remarks ARFF Index—See Remarks
                                                                                              H-5C, L-10I
    NOTAM FILE LNK
                                                                                                 IAP, AD
  RWY 18-36: H12901X200 (ASPH-CONC-GRVD) S-100, D-200,
    2S-175, 2D-400 HIRL
    RWY 18: MALSR. PAPI(P4L)—GA 3.0° TCH 55'. Rgt tfc. 0.4%
      down.
    RWY 36: MALSR. PAPI(P4L)-GA 3.0° TCH 57'.
  RWY 14-32: H8649X150 (ASPH-CONC-GRVD) S-80, D-170,
    2S-175, 2D-280
                     MIRL
    RWY 14: REIL. VASI(V4L)—GA 3.0° TCH 48'. Thid dsplcd 363'.
    RWY 32: VASI(V4L)—GA 3.0° TCH 50'. Thid dsplcd 470'.
      Pole. 0.3% up.
  RWY 17-35: H5800X100 (ASPH-CONC-AFSC) S-49, D-60
       HIRL 0.8% up S
    RWY 17: REIL. PAPI(P4L)-GA 3.0° TCH 44'.
    RWY 35: ODALS. PAPI(P4L)-GA 3.0° TCH 30'. Rgt tfc.
  RUNWAY DECLARED DISTANCE INFORMATION
    RWY 14: TORA-8649 TODA-8649 ASDA-8649 LDA-8286
    RWY 17: TORA-5800 TODA-5800 ASDA-5400 LDA-5400
    RWY 18: TORA-12901 TODA-12901 ASDA-12901 LDA-12901
    RWY 32: TORA-8649 TODA-8649 ASDA-8286 LDA-7816
    RWY 35: TORA-5800 TODA-5800 ASDA-5800 LDA-5800
    RWY 36: TORA-12901 TODA-12901 ASDA-12901 LDA-12901
  AIRPORT REMARKS: Attended continuously. Birds invof arpt. Rwy 18 designated calm wind rwy. Rwy 32 apch holdline
    on South A twy. TPA-2219 (1000), heavy military jet 3000 (1781). Class I, ARFF Index B. ARFF Index C level
    equipment provided. Rwy 18-36 touchdown and rollout rwy visual range avbl. When twr clsd MIRL Rwy 14-32
    preset on low ints, HIRL Rwy 18-36 and Rwy 17-35 preset on med ints, ODALS Rwy 35 operate continuously on
    med ints, MALSR Rwy 18 and Rwy 36 operate continuously and REIL Rwy 14 and Rwy 17 operate continuously
    on low ints. VASI Rwy 14 and Rwy 32, PAPI Rwy 17, Rwy 35, Rwy 18 and Rwy 36 on continuously.
  WEATHER DATA SOURCES: ASOS (402) 474-9214. LLWAS
                                            UNICOM 122.95
  COMMUNICATIONS: CTAF 118.5 ATIS 118.05
    RCO 122.65 (COLUMBUS RADIO)
 R APP/DEP CON 124.0 (180°-359°) 124.8 (360°-179°)
    TOWER 118.5 125.7 (1130-0600Z‡) GND CON 121.9 CLNC DEL 120.7
  AIRSPACE: CLASS C svc 1130-0600Z‡ ctc APP CON other times CLASS E.
  RADIO AIDS TO NAVIGATION: NOTAM FILE LNK.
    (H) VORTACW 116.1 LNK Chan 108 N40°55.43′ W96°44.52′ 181° 4.4 NM to fld. 1370/9E
    POTTS NDB (MHW/LOM) 385 LN N40°44.83' W96°45.75' 355° 6.2 NM to fld. Unmonitored when twr clsd.
              I-OCZ
    ILS 111.1
                       Rwy 18.
                                 Class IB OM unmonitored.
              I-LNK Rwy 36 Class IA LOM POTTS NDB. MM unmonitored. LOM unmonitored when twr
    ILS 109.9
  COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not available at twr.
LOUP CITY MUNI (ØF4) 1 NW UTC-6(-5DT) N41°17.20′ W98°59.41′
                                                                                                  OMAHA
  2071 B FUEL 100LL NOTAM FILE OLU
                                                                                              L-10H, 12H
  RWY 16-34: H3200X60 (CONC) S-12.5 MIRL
    RWY 34: Trees.
  RWY 04-22: 2040X100 (TURF)
                     RWY 22: Road.
    RWY 04: Tree.
  AIRPORT REMARKS: Unattended. For svc call 308-745-1344/1244/0664.
  COMMUNICATIONS: CTAF 122.9
  RADIO AIDS TO NAVIGATION: NOTAM FILE OLU.
    WOLBACH (H) VORTAC 114.8 OBH Chan 95 N41°22.54′ W98°21.22′ 253° 29.3 NM to fld. 2010/7E.
MARTIN FLD (See SO SIOUX CITY)
```

Figure 3-1

- **21.** A pilot should be able to overcome the symptoms or avoid future occurrences of hyperventilation by
 - A—closely monitoring the flight instruments to control the airplane.
 - B—slowing the breathing rate, breathing into a bag, or talking aloud.
 - C—increasing the breathing rate in order to increase lung ventilation.
- **22.** A pilot is more subject to spatial disorientation if
 - A—kinesthetic senses are ignored.
 - B—eyes are moved often in the process of crosschecking the flight instruments.
 - C—body signals are used to interpret flight attitude.
- **23.** What preparation should a pilot make to adapt the eyes for night flying?
 - A—Avoid red lights at least 30 minutes before the flight.
 - B—Wear amber colored glasses at least 30 minutes before the flight.
 - C—Avoid bright white light at least 30 minutes before the flight.
- **24.** What effect does haze have on the ability to see traffic or terrain features during flight?
 - A—Haze causes the eyes to focus on infinity.
 - B—The eyes tend to overwork in haze and do not detect relative movement easily.
 - C—All traffic or terrain features appear to be farther away than their actual distance.
- **25.** Which incidents would require that an immediate notification be made to the nearest NTSB field office?
 - A—An overdue aircraft that is believed to be involved in an accident.
 - B—An in-flight radio (communication) failure.
 - C—An in-flight generator or alternator failure.
- **26.** Which is a class of airplane?
 - A—Multi-engine land.
 - B—Helicopter.
 - C—Glider.

- **27.** The definition of nighttime is
 - A—sunset to sunrise.
 - B—1 hour after sunset to 1 hour before sunrise.
 - C—from the end of evening civil twilight to the beginning of morning civil twilight.
- **28.** Unless otherwise specified, Federal airways extend from
 - A—1,200 ft. above the surface upward to, but not including, 14,500 ft. MSL and are 16 NM wide.
 - B—700 ft. above the surface upward to the Continental Control Area and are 10NM wide.
 - C—1,200 ft. above the surface upward to, but not including, 18,000 ft. MSL and are 8 NM wide.
- **29.** Private pilots acting as pilot-in-command, or in any other capacity as a required pilot flight crewmember, must have in their personal possession while aboard the aircraft
 - A—a current logbook endorsement to show that a flight review has been satisfactorily accomplished.
 - B—The current and appropriate pilot and medical certificates.
 - C—the current endorsement in the logbook to show that a flight has been satisfactorily accomplished.
- **30.** A Third-Class Medical Certificate is issued to a 36-year-old pilot on August 10, this year. To exercise the privileges of a Private Pilot Certificate, the medical certificate will be valid until midnight on
 - A—August 10, 2 years later.
 - B—August 31, 5 years later.
 - C—August 31, 2 years later.
- **31.** What is the definition of a high-performance airplane?
 - A—An airplane with an engine of more than 200 horsepower.
 - B—An airplane with 180 horsepower, or retractable landing gear, flaps, and a fixed-pitch propeller.
 - C—An airplane with a normal cruise speed in excess of 200 knots.

- **32.** To meet the flight experience requirements to act as pilot-in-command carrying passengers at night, a pilot must have made at least three takeoffs and three landings to a full stop within the preceeding 90 days
 - A—in the same category and class of aircraft to be used.
 - B—in the same class or aircraft to be used.
 - C—in any aircraft, but must be accompanied by a certified flight instructor who meets the recent experience for night flight.
- **33.** When a certificated pilot changes permanent mailing address and fails to notify the FAA Airmen Certification Branch of the new address, the pilot is entitled to exercise the privileges of the pilot certificate for a period of only
 - A—30 days after the date of the move.
 - B—60 days after the date of the move.
 - C—90 days after the date of the move.
- **34.** In regard to general privileges and limitations, a private pilot may
 - A—not be paid in any manner for the operating expenses of a flight.
 - B—act as pilot-in-command of an aircraft carrying a passenger for compensation if the flight is in connection with a business or employment.
 - C—share the operating expenses of a flight with a passenger.
- **35.** If an in-flight emergency requires immediate action, a pilot-in-command may
 - A—deviate from regulations to the extent required to meet the emergency, but must submit a written report to the Administrator within 24
 - B—not deviate from regulations unless prior to the deviation approval is granted by the Administrator.
 - C—deviate from regulations to the extent required to meet that emergency.

- **36.** When must a pilot who deviates from a rule during an emergency send a written report of that deviation to the Administrator?
 - A—7 days.
 - B—10 days.
 - C—Upon request.
- **37.** Preflight action, as required by regulations for all flights away from the vicinity of an airport, shall include a study of the weather, taking into consideration fuel requirements and
 - A—the designation of an alternate airport.
 - B—the filing of a flight plan.
 - C—an alternate course of action if the flight cannot be completed as planned.
- **38.** Under what condition, if any, may a pilot allow a person who is obviously under the influence of intoxicating liquors or drugs to be carried aboard an aircraft?
 - A—Under no condition.
 - B—Only if the person is a medical patient under proper care or in an emergency.
 - C—Only if the person does not have access to the cockpit or pilot's compartment.
- **39.** Regulations require that seatbelts in an airplane be properly secured about the
 - A—occupants during takeoffs and landings.
 - B—crewmembers only, during takeoffs and landings.
 - C—passengers and crewmembers during the entire flight.
- **40.** What is the fuel requirement for flight under VFR at night in an airplane?
 - A—Enough to complete the flight at normal cruising flight with adverse wind conditions.
 - B—Enough to fly to the first point of intended landing and to fly after that for 30 minutes after cruising speed.
 - C—Enough to fly to the first point of intended landing and to fly after that for 45 minutes at normal cruising speed.

- **41.** In addition to a valid Airworthiness Certificate, what documents or records must be aboard an aircraft during flight?
 - A—Radio station license and repair and alteration forms.
 - B—Operating limitations and Registration Certificate.
 - C—Radio station license and owner's manual.
- **42.** When two or more aircraft are approaching an airport for the purpose of landing, the right-of-way belongs to the aircraft
 - A—that has the other to its right.
 - B—that is either ahead of or to the other's right regardless of altitude.
 - C—at the lower altitude but it shall not take advantage of this rule to cut in front of or to overtake another.
- **43.** Except when necessary for takeoff or landing, what is the minimum safe altitude for a pilot to operate an aircraft anywhere?
 - A—An altitude allowing, if a power unit fails, an emergency landing without undue hazard to persons or property on the surface.
 - B—An altitude of 500 ft. above the surface and no closer than 500 ft. to any person, vessel, vehicle, or structure.
 - C—An altitude of 500 ft. above the highest obstacle with a horizontal radius of 1,000 ft.
- **44.** Unless otherwise authorized, two-way radio communications with Air Traffic Control are required for landings or takeoffs
 - A—at all tower controlled airports regardless of weather conditions.
 - B—at all tower controlled airports only when weather conditions are less than VFR.
 - C—at all tower controlled airports within Class D airspace only when weather conditions are less than VFR.

- **45.** What minimum pilot certification is required for operation within Class B airspace?
 - A—Recreational Pilot Certificate.
 - B—Private Pilot Certificate or Student Pilot Certificate with appropriate logbook endorsements.
 - C—Private Pilot Certificate with an instrument rating.
- **46.** VFR flight in controlled airspace above 1,200 feet AGL and below 10,000 feet MSL requires a minimum visibility and vertical cloud clearance of
 - A—3 miles, and 500 feet below or 1,000 feet above the clouds in controlled airspace.
 - B—5 miles, and 1,000 feet below or 1,000 feet above the clouds at all altitudes.
 - C—5 miles, and 1,000 feet below or 1,000 feet above the clouds only in Class A airspace.
- **47.** The basic VFR weather minimums for operating an aircraft within Class D airspace are
 - A—500-foot ceiling and 1 mile visibility.
 - B—1,000-foot ceiling and 3 miles visibility.
 - C—clear of clouds and 2 miles visibility.
- **48.** What are the minimum requirements for airplane operations under special VFR in Class D airspace at night?
 - A—The airplane must be under radar surveillance at all times while in Class D airspace.
 - B—The airplane must be equipped for IFR with an altitude reporting transponder.
 - C—The pilot must be instrument rated, and the airplane must be IFR equipped.
- **49.** Which VFR cruising altitude is acceptable for a flight on a Victor Airway with a magnetic course of 175°? The terrain is less than 1,000 feet.
 - A-4.500 feet.
 - B—5,000 feet.
 - C—5,500 feet.

Final Exam

- **1.** What is absolute altitude?
 - A—The altitude read directly from the altimeter.
 - B—The vertical distance of the aircraft above the surface.
 - C—The height above the standard datum plane.
- **2.** What is density altitude?
 - A—The height above the standard datum plane.
 - B—The pressure altitude corrected for nonstandard temperature.
 - C—The altitude read directly from the altimeter.
- **3.** Under what condition is indicated altitude the same as true altitude?
 - A—If the altimeter has no mechanical error.
 - B—When at sea level under standard conditions.
 - C—When at 18,000 feet MSL with the altimeter set at 29.92.
- **4.** (Refer to Figure 1.) Determine the density altitude for these conditions:

Altimeter setting	30.35
Runway temperature	+25°F
Airport elevation	3,894 ft MSL

- A—2,000 feet MSL.
- B—2,900 feet MSL.
- C-3,500 feet MSL.
- **5.** How do variations in temperature affect the altimeter?
 - A—Pressure levels are raised on warm days and the indicated altitude is lower than true altitude.
 - B—Higher temperatures expand the pressure levels and the indicated altitude is higher than true altitude.
 - C—Lower temperatures lower the pressure levels and the indicated altitude is lower than true altitude.

- **6.** Applying carburetor heat will
 - A—result in more air going through the carburetor.
 - B—enrich the fuel/air mixture.
 - C—not affect the fuel/air mixture
- **7.** During the run-up at a high-elevation airport, a pilot notes a slight engine roughness that is not affected by the magneto check but grows worse during the carburetor heat check. Under these circumstances, what would be the most logical initial action?
 - A—Check the results obtained with a leaner setting of the mixture.
 - B—Taxi back to the flight line for a maintenance check.
 - C—Reduce manifold pressure to control detonation.
- **8.** In the Northern Hemisphere, a magnetic compass will normally indicate initially a turn toward the west if
 - A—a left turn is entered from a north heading.
 - B—a right turn is entered from a north heading.
 - C—an aircraft is accelerated while on a north heading.
- **9.** If the pitot tube and outside static vents become clogged, which instruments would be affected?
 - A—The altimeter, airspeed indicator, and turnand-slip indicator.
 - B—The altimeter, airspeed indicator, and vertical speed indicator.
 - C—The altimeter, attitude indicator, and turn-andslip indicator.
- 10. Which basic flight maneuver increases the load factor on an airplane as compared to straight-andlevel flight?
 - A—Climbs.
 - B—Turns.
 - C—Stalls.

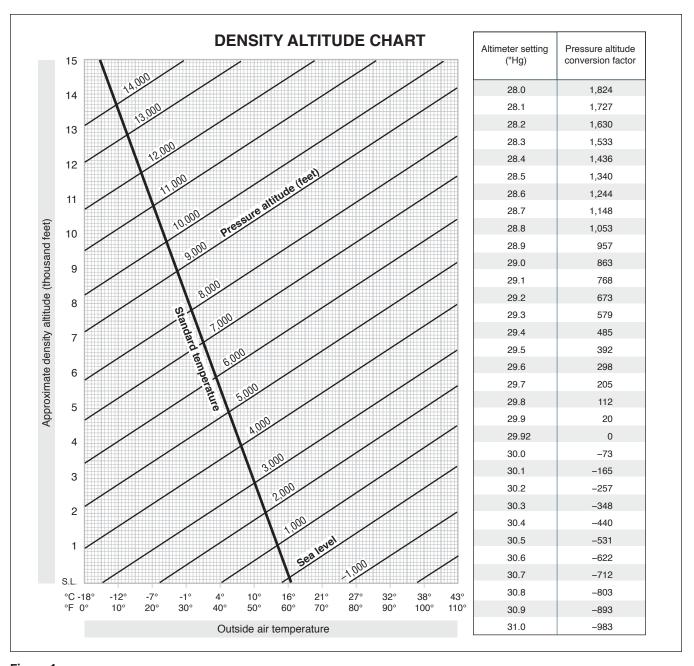


Figure 1

- **11.** Floating caused by the phenomenon of ground effect will be most realized during an approach to land when at
 - A—less than the length of the wingspan above the surface.
 - B—twice the length of the wingspan above the surface.
 - C—a higher-than-normal angle of attack.
- **12.** (Refer to Figure 2.) An aircraft departs an airport in the central standard time zone at 0930 CST for a 2-hour flight to an airport located in the mountain standard time zone. The landing should be at what time?
 - A-0930 MST.
 - B-1030 MST.
 - C-1130 MST.

- **13.** (Refer to Map 3 on Page 95.) What is the recommended communications procedure for a landing at Currituck County Airport?
 - A—Transmit intentions on 122.9 MHz when 10 miles out and give position reports in the traffic pattern.
 - B—Contact Elizabeth City FSS for airport advisory service.
 - C—Contact New Bern FSS for area traffic information
- **14.** (Refer to Map 4, area 3, on Page 96.) Which airport is located at approximately 47°21'N latitude and 101°01'W longitude?
 - A—Underwood.
 - B—Evenson.
 - C—Washburn.

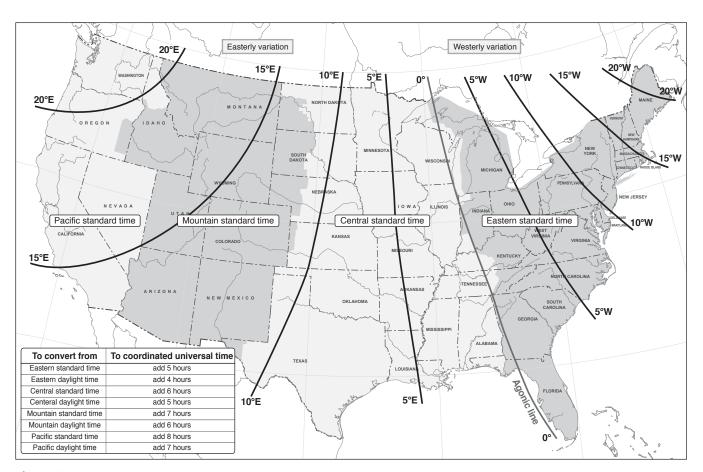


Figure 2

- **15.** (Refer to Map 3 on Page 95.) What hazards to aircraft may exist in warning areas such as Warning W-50B?
 - A—Unusual, often invisible, hazards such as aerial gunnery or guided missiles over international waters.
 - B—High volume of pilot training or unusual type of aerial activity.
 - C—Heavy military aircraft traffic in the approach and departure area of the North Atlantic Control Area.
- **16.** (Refer to Map 6 on Page 98.) At which airports is fixed-wing Special VFR not authorized?
 - A—Fort Worth Meacham and Fort Worth Spinks.
 - B—Dallas-Fort Worth International and Dallas Love Field.
 - C—Addison and Redbird.
- **17.** (Refer to Map 5, area 3, on Page 97.) The top of the lighted stack approximately 12 nautical miles from the Savannah VORTAC on the 350° radial is
 - A—305 feet AGL.
 - B-400 feet AGL.
 - C—432 feet AGL.
- **18.** (Refer to Map 5 on Page 97.) What is the estimated time en route for a flight from Allendale County Airport (area 1) to Claxton-Evans County Airport (Area 2). The wind is from 090° at 16 knots and the true airspeed is 90 knots. Add 2 minutes for climb-out.
 - A—33 minutes.
 - B—37 minutes.
 - C—41 minutes.
- **19.** (Refer to Map 4 on Page 96.) What course should be selected on the omnibearing selector (OBS) to make a direct flight from Mercer County Regional Airport (area 3) to the Minot VORTAC (area 1) with a TO indication?
 - A-358°.
 - B-012°.
 - C—178°.

- **20.** Maintenance records show the last transponder inspection was performed on September 1. The next inspection will be due no later than
 - A—September 30, 1 year later.
 - B—September 1, 2 years later.
 - C—September 30, 2 years later.
- **21.** If receiver autonomous integrity monitoring (RAIM) capability is lost in flight,
 - A—the pilot may still rely on GPS-derived altitude for vertical information.
 - B—the pilot has no assurance of the accuracy of the GPS position.
 - C—GPS position is reliable provided at least 3 GPS satellites are available.
- **22.** (Refer to Figure 3.) What is the crosswind component for a landing on Runway 18 if the tower reports the wind as 220° at 30 knots?
 - A—19 knots.
 - B—23 knots.
 - C—30 knots.
- **23.** (Refer to Figure 4.) Determine the approximate landing ground roll distance.

Pressure altitude	Sea level
Headwind	4 kts
Temperature	Std

- A-356 feet.
- B—401 feet.
- C—490 feet.
- **24.** (Refer to Figure 5.) Determine the total distance required for takeoff to clear a 50-foot obstacle.

OAT	Std
Pressure altitude	4,000 ft
Takeoff weight	2,800 lb
Headwind component	Calm

- A—1,500 feet.
- B—1,750 feet.
- C—2,000 feet.

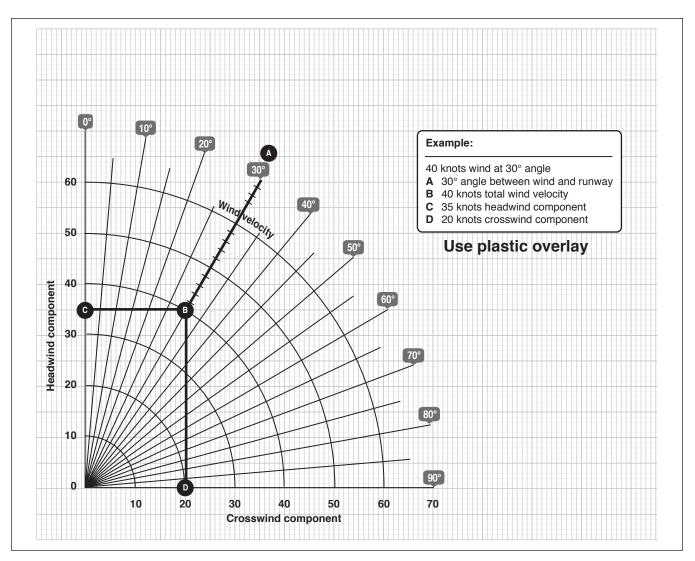


Figure 3

				Landing	Distance			ips lowered to 4 rd surface runw	
Gross weight	Approach	At sea le	vel & 59 °F	At 2,500 f	eet & 50 °F	At 5,000 fe	et & 41 °F	At 7,500 fe	eet & 32 °F
lb	speed, IAS, MPH	Ground roll	Total to clear 50 feet OBS	Ground roll	Total to clear 50 feet OBS	Ground roll	Total to clear 50 feet OBS	Ground roll	Total to clear 50 feet OBS
1,600	60	445	1,075	470	1,135	495	1,195	520	1,255

Decrease the distances shown by 10% for each 4 knots of headwind.
 Increase the distance by 10% for each 60 °F temperature increase above standard.
 For operation on a dry, grass runway, increase distance (both "ground roll" and "total to clear 50 feet obstacle") by 20% of the "total to clear 50 feet obstacle" figure.

Figure 4

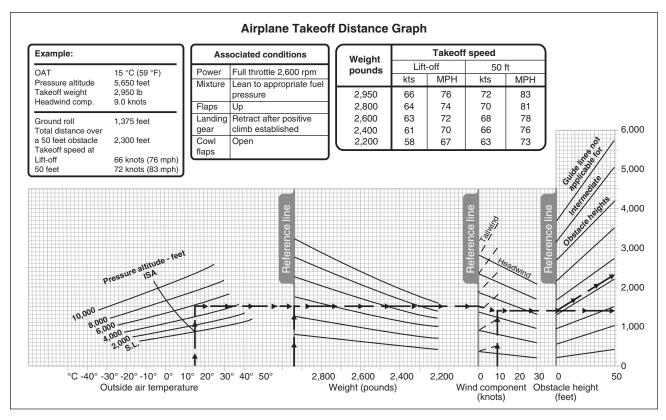


Figure 5

25. GIVEN:

W	EIGHT	ARM	MOMENT
	(LB)	(IN)	(LB-IN)
Empty weight	1,495.0	101.4	151,593.0
Pilot + passengers	380.0	64.0	
Fuel (30 gal			
usable no reserve)		96.0	

The CG is located how far aft of datum?

A-CG 92.44.

B—CG 94.01.

C—CG 119.8.

- **26.** Why is the use of a written checklist recommended for preflight inspection and engine start?
 - A—To ensure that all necessary items are checked in a logical sequence.
 - B—For memorizing the procedures in an orderly sequence.
 - C—To instill confidence in the passengers.

- **27.** When taking off or landing at an airport where heavy aircraft are operating, one should be particularly alert to the hazards of wingtip vortices because this turbulence tends to
 - A—rise from a crossing runway into the takeoff or landing path.
 - B—rise into the traffic pattern area surrounding the airport.
 - C—sink into the flightpath of aircraft operating below the aircraft generating the turbulence.
- **28.** (Refer to Figure 6.) Which runway and traffic pattern should be used as indicated by the wind cone in the segmented circle?

A-Right-hand traffic on Runway 8.

B—Right-hand traffic on Runway 17.

C—Left-hand traffic on Runway 35.

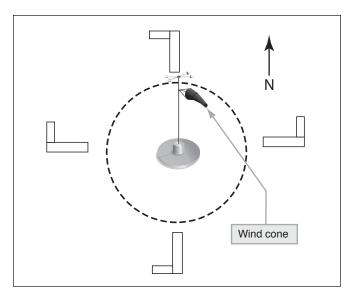


Figure 6

- 29. (Refer to Figure 7.) VASI lights as shown by illustration C indicate that the airplane is
 - A—off course to the left.
 - B—above the glide slope.
 - C—below the glide slope.

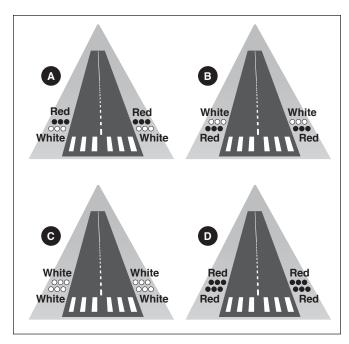


Figure 7

- **30.** (Refer to Figure 8.) The arrows that appear on the end of the north/south runway indicate that the area
 - A—may be used only for taxiing.
 - B—is usable for taxiing, takeoff, and landing.
 - C—cannot be used for landing, but may be used for taxiing and takeoff.

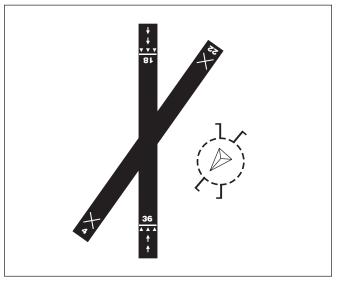


Figure 8

- **31.** Under what condition may an aircraft operate from a satellite airport within Class C airspace?
 - A—The pilot must file a flight plan prior to departure.
 - B—The pilot must monitor ATC until clear of the Class C airspace.
 - C—The pilot must contact ATC as soon as practicable after takeoff
- **32.** Below FL180, en route weather advisories should be obtained from flight service on
 - A—122.2 MHz.
 - B—122.0 MHz.
 - C—121.5 MHz.

- **33.** The most effective method of scanning for other aircraft for collision avoidance during nighttime hours is to use
 - A—regularly spaced concentration on the 3-, 9-, and 12-o'clock positions.
 - B—a series of short, regularly spaced eye movements to search each 30-degree sector.
 - C—peripheral vision by scanning small sectors and utilizing offcenter viewing.
- **34.** What is the purpose of the No Entry sign?
 - A—Identifies area that does not continue beyond intersection.
 - B—Identifies a paved area where aircraft are prohibited from entering.
 - C—Identifies the exit boundary for the runway protected area.
- **35.** Rapid or extra deep breathing while using oxygen can cause a condition known as
 - A—hyperventilation.
 - B—aerosinusitis.
 - C—aerotitis.
- **36.** The operator of an aircraft that has been involved in an incident is required to submit a report to the nearest field office of the NTSB
 - A—within 7 days.
 - B—within 10 days.
 - C—when requested.
- **37.** The vertical limit of Class C airspace above the primary airport is normally
 - A—1,200 feet AGL.
 - B-3,000 feet AGL.
 - C-4,000 feet AGL.
- **38.** For private pilot operations, a Second-Class Medical Certificate issued to a 42-year-old pilot on July 15, this year, will expire at midnight on
 - A—July 15, 2 years later.
 - B—July 31, 1 year later.
 - C—July 31, 2 years later.

- **39.** Before a person holding a Private Pilot Certificate may act as pilot-in-command of a high-performance airplane, that person must have
 - A—passed a flight test in that airplane from an FAA inspector.
 - B—an endorsement in that person's logbook that he/she is competent to act as pilot-in-command.
 - C—received flight instruction from an authorized flight instructor who then endorses that person's logbook.
- **40.** What exception, if any, permits a private pilot to act as pilot-in-command of an aircraft carrying passengers who pay for the flight?
 - A—If the passengers pay all the operating expenses.
 - B—If a donation is made to a charitable organization for the flight.
 - C—There is no exception.
- **41.** Flight crewmembers are required to keep their safety belts and shoulder harnesses fastened during
 - A—takeoffs and landings.
 - B—all flight conditions.
 - C—flight in turbulent air.
- **42.** With certain exceptions, when must each occupant of an aircraft wear an approved parachute?
 - A—When a door is removed from the aircraft to facilitate parachute jumpers.
 - B—When intentionally pitching the nose of the aircraft up or down 30° or more.
 - C—When intentionally banking in excess of 30°.
- **43.** What action is required when two aircraft of the same category converge, but not head-on?
 - A—The faster aircraft shall give way.
 - B—The aircraft on the left shall give way.
 - C—Each aircraft shall give way to the right.

- **44.** No person may operate an aircraft in acrobatic flight when the flight visibility is less than
 - A—3 miles
 - B—5 miles.
 - C—7 miles.
- **45.** If the control tower uses a light signal to direct a pilot to give way to other aircraft and continue circling, the light will be
 - A—flashing red.
 - B—steady red.
 - C—alternating red and green.
- **46.** To determine the expiration date of the last annual aircraft inspection, a person should refer to the
 - A—Airworthiness Certificate.
 - B—Registration Certificate.
 - C—aircraft maintenance records.
- **47.** A 100-hour inspection was due at 3302.5 hours on the tachometer. The 100-hour inspection was actually done at 3309.5 hours. When is the next 100-hour inspection due?
 - A—3312.5 hours.
 - B—3402.5 hours.
 - C-3409.5 hours.
- **48.** Which records or documents shall the owner or operator of an aircraft keep to show compliance with an applicable Airworthiness Directive?
 - A—Aircraft maintenance records.
 - B—Airworthiness Certificate and Pilot's Operating Handbook.
 - C—Airworthiness and Registration Certificates.
- **49.** A temperature inversion would most likely result in which weather condition?
 - A—Clouds with extensive vertical development above an inversion aloft.
 - B—Good visibility in the lower levels of the atmosphere and poor visibility above an inversion aloft.
 - C—An increase in temperature as altitude is increased.

- **50.** What causes variations in altimeter settings between weather reporting points?
 - A—Unequal heating of the Earth's surface.
 - B—Variation of terrain elevation.
 - C—Coriolis force
- **51.** What would decrease the stability of an air mass?
 - A—Warming from below.
 - B—Cooling from below.
 - C—Decrease in water vapor.
- **52.** What cloud types would indicate convective turbulence?
 - A—Cirrus clouds.
 - B—Nimbostratus clouds.
 - C—Towering cumulus clouds.
- **53.** Which conditions result in the formation of frost?
 - A—The temperature of the collecting surface is at or below freezing when small droplets of moisture fall on the surface.
 - B—The temperature of the collecting surface is at or below the dewpoint of the adjacent air and the dewpoint is below freezing.
 - C—The temperature of the surrounding air is at or below freezing when small drops of moisture fall on the collecting surface.
- **54.** What situation is most conducive to the formation of radiation fog?
 - A—Warm, moist air over low, flatland areas on clear, calm nights.
 - B—Moist, tropical air moving over cold, offshore
 - C—The movement of cold air over much warmer water
- **55.** AIRMETs are issued as a warning of weather conditions particularly hazardous to which aircraft?
 - A—Small single-engine aircraft.
 - B—Large multi-engine aircraft.
 - C—All aircraft.

- **56.** (Refer to Figure 9.) Between 1000Z and 1200Z the visibility at KMEM is forecast to be?
 - A—1/2 statute mile.
 - B—3 statute miles.
 - C—6 statute miles.
- **57.** To best determine general forecast weather conditions covering a flight information region, the pilot should refer to
 - A—Graphical Forecasts for Aviation (GFA).
 - B—Weather Depiction Charts.
 - C—Satellite Maps.
- **58.** (Refer to Figure 10.) What type of weather can be expected from the front that extends from Colorado to Wisconsin?
 - A—Heavy precipitation.
 - B—Low clouds and little to no precipitation.
 - C—Low clouds and heavy precipitation.

- **59.** (Refer to Figure 11.) If the terrain elevation is 1,295 feet MSL, what is the height above ground level of the base of the ceiling?
 - A—505 feet AGL.
 - B—1,295 feet AGL.
 - C—6,586 feet AGL.
- **60.** (Refer to Figure 12, area D.) What is the direction and speed of movement of the radar return?
 - A—Southeast at 30 knots.
 - B—Northeast at 20 knots.
 - C—West at 30 knots.

TAF	
KMEM	121720Z 1218/1324 20012KT 5SM HZ BKN030 PROB40 1222/1302 1SM TSRA OVC008CB FM122200 33015G20KT P6SM BKN015 OVC025 PROB40 1222/1302 3SM SHRA FM130200 35012KT OVC008 PROB40 1302/1305 2SM-RASN BECMG 1306/1308 02008KT BKN012 BECMG 1310/1312 00000KT 3SM BR SKC TEMPO 1212/1214 1/2SM FG FM131600 VRB06KT P6SM SKC=
KOKC	051130Z 0512/0618 14008KT 5SM BR BKN030 TEMPO 0513/0516 1 1/2SM BR FM051600 18010KT P6SM SKC BECMG 0522/0524 20013G20KT 4SM SHRA OVC020 PROB40 0600/0606 2SM TSRA OVC008CB BECMG 0606/0608 21015KT P6SM SCT040=

Figure 9

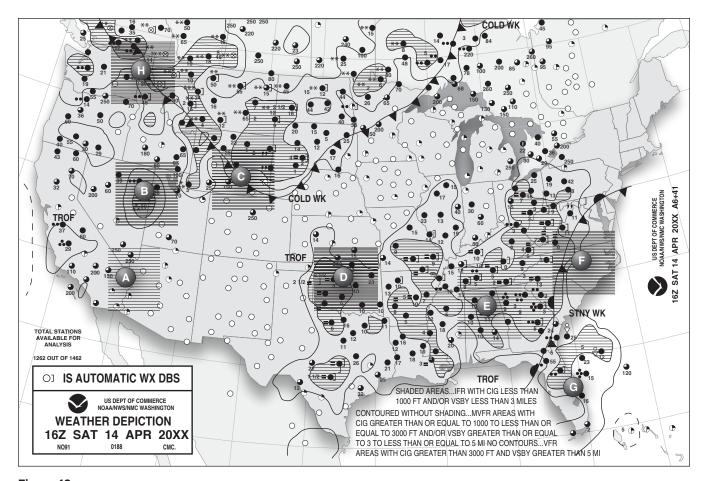


Figure 10

UA/OV KOKC-KTUL/TM 1800/FL 120/TP BE90//SK BKN018-TOP055/OVC072-TOP089/CLR ABV/TA M7/WV 08021/TB LGT 055-072/IC LGT-MOD RIME 072-089

Figure 11

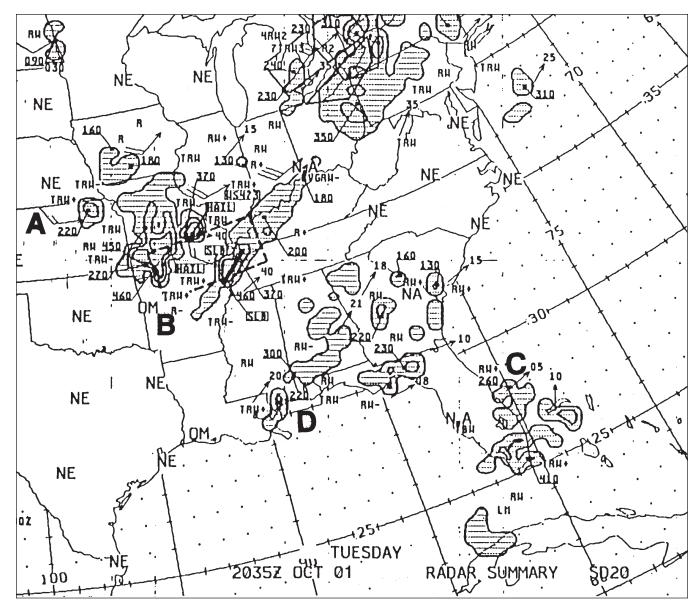
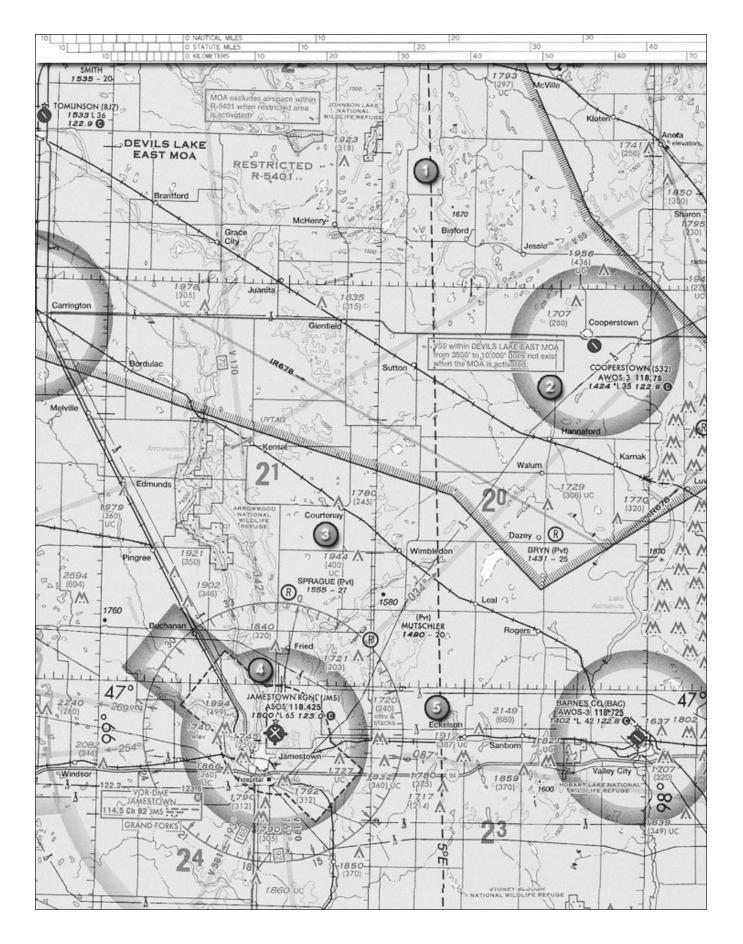
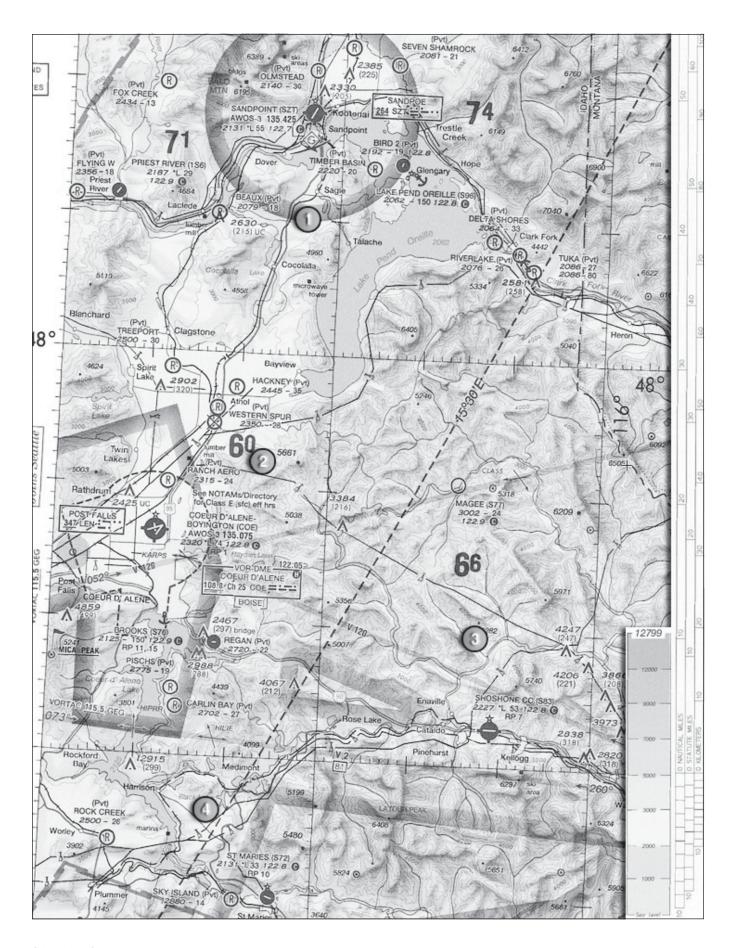
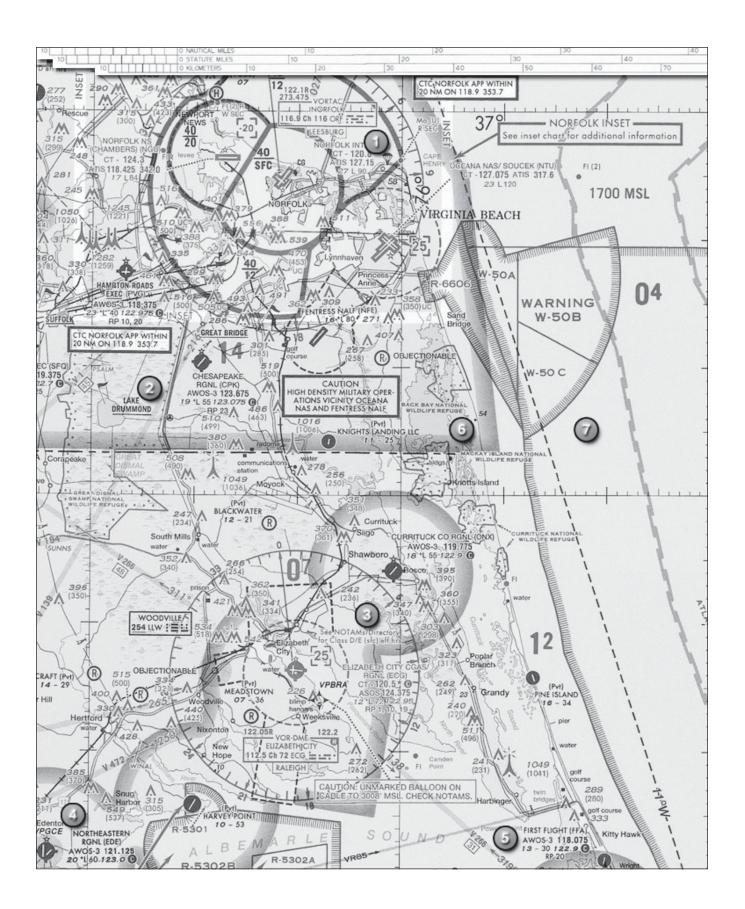
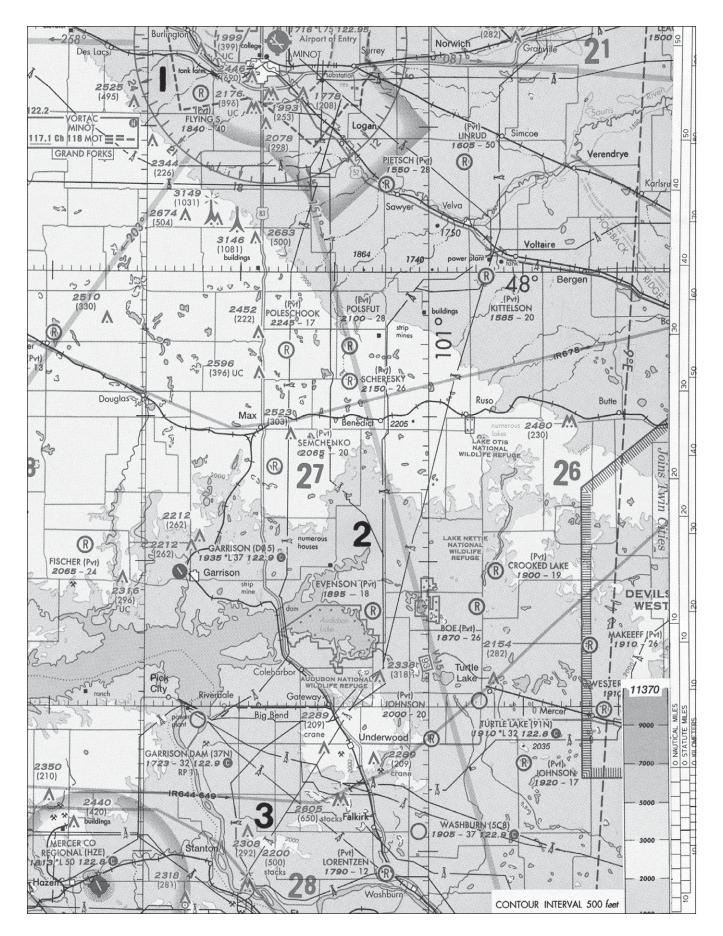


Figure 12

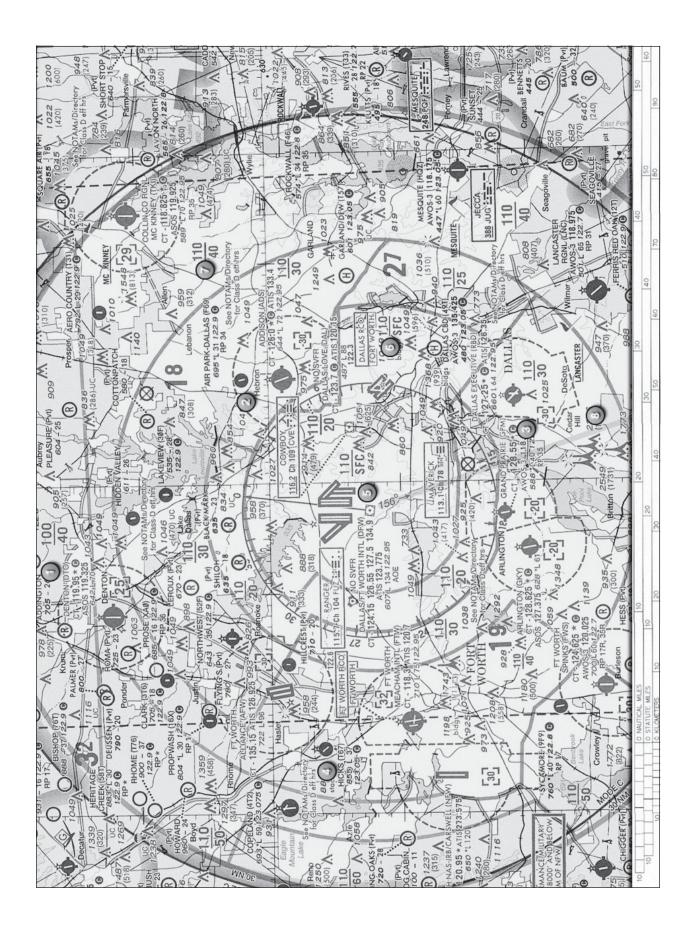


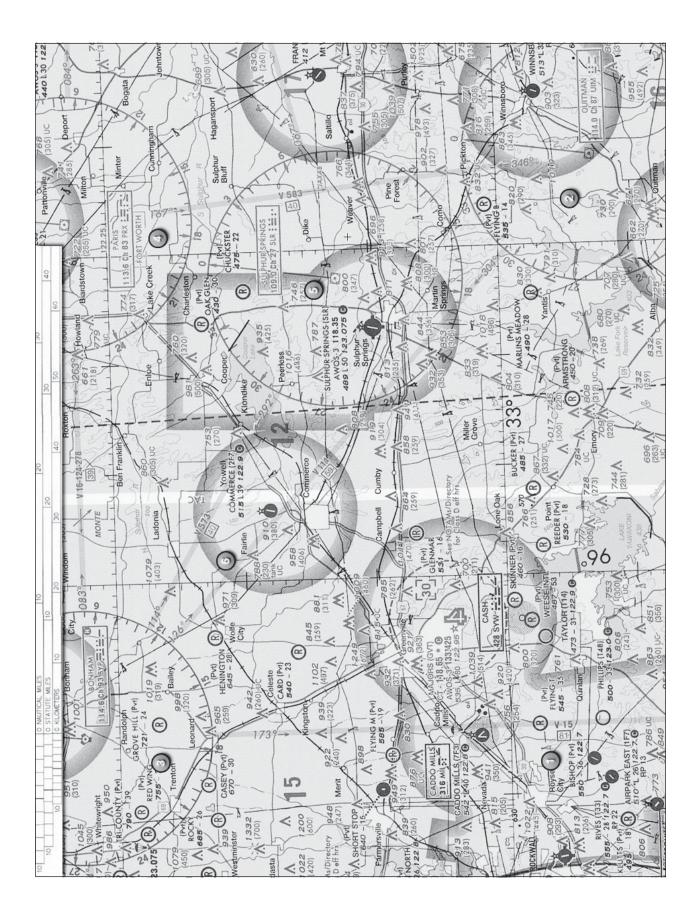












Appendix

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Enrollment Certificate	A–7
Graduation Certificate	A–7
FAA Form 8710-1	A–8

Sport Pilot Addendum

Adapting the Syllabus for Sport Pilot

Part 61 Private Pilot applicants are required to have logged a minimum of 40 hours of flight time, but the national average is about 65 hours. Similarly, the Sport Pilot applicant must have logged a minimum of 20 hours but the average student may require as much as 30 hours prior to being ready for the sport pilot practical test, especially if the student's goal is to upgrade to private pilot status at a later date.

All "VR and IR" notations should be ignored. The sport pilot certificate does not require training in aircraft control by reference to flight instruments.

Per 14 CFR §61.313, if you are applying for a sport pilot certificate with an airplane category, then you must log at least 20 hours of flight time, including at least 15 hours of flight training from an authorized instructor in a single-engine airplane and at least 5 hours of solo flight training which must include at least:

- (i) 2 hours of cross-country flight training,
- (ii) 10 takeoffs and landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport,
- (iii) One solo cross-country flight of at least 75 NM total distance, with a full-stop landing at a minimum of two points and one segment of the flight consisting of a straight-line distance of at least 25 NM between the takeoff and landing locations, and
- (iv) 3 hours of flight training in preparation for the practical test within 60 days before the date of the test.

Sport Pilot Curriculum

Complete the following lessons from the Private Pilot Course.

Lesson	Dual Flight	Solo Flight	Dual X/C	Solo X/C	Ground Instruction
Stage 1 Preparation for Solo Fligh	nt				
Flight 1	1.0				1.0
Ground 1					1.5
Flight 2	1.0				1.5
Flight 3	1.0				0.5
Ground 2					1.5
Flight 4	1.0				0.5
Flight 5	1.0				0.5
Ground 3					1.5
Flight 6	1.0				0.5
Flight 7	1.0				0.5 + Presolo Exam
Ground 4					1.5 + Stage 1 Exam
Flight 8	0.5	0.5			0.5

Lesson	Dual Flight	Solo Flight	Dual X/C	Solo X/C	Ground Instruction
Stage 2 Cross-Country					-
Flight 10 Note: Students training in airplanes with V _H of less than 87 knots should disregard the mention of flight by instrument reference only. All Sport applicants can disregard inadvertent loss of visual reference and Airport Surveillance Radar approaches.	1.5				0.5
Flight 11 Note: The standard of accuracy for turns is $\pm 10^{\circ}$ for Sport Pilots.	0.5	0.5			0.5
Ground 6					1.5
Flights 12 and 13	1.5	1			0.5
Ground 7			1		1.5
Flight 15 Note: Students training in airplanes with a V_H of less than 87 knots should disregard transitioning from visual to instrument reference, etc.	1.0		1.0		0.5
Ground 8				ĺ	1.5
Flight 16 Note: Disregard Class B and C airspace. This flight should include a landing at a point more than 50 NM from the departure airport. Stops at airports enroute are encouraged in order for the applicant to become familiar with strange-airport procedures.	1.0		1.0		1.0
Ground 9					1.5 + Stage 2 Exam
Flight 18 Note: This is the required 75 NM round-trip flight. One nonstop leg must be more than 25 NM and there must be a landing at each of a minimum of two points.		2.0		2.5	1.0

Lesson	Dual Flight	Solo Flight	Dual X/C	Solo X/C	Ground Instruction
Stage 3 Pilot Operations Flight Lessons 22, 23, and 25 constitute the required two hours of training in preparation for the practical test. Flight Lesson 24 is not applicable.					
Ground 10					1.5
Flight 22	1.0				0.5
Ground 11					1.5
Flight 23		1.0			1.0
Ground 12					1.5 + Stage 3 Exam + Final Exam
Flight 25	1.0				1.0
Totals 14 CFR §61.313	15.0	5.0	2.0	2.5	35.0
	 				

Answers to Exam Questions

Pre-Solo Exam: Answers

2	9	18	26
	16C		

14

Stage Exams: Answers

Stage 1
1A
2B
3B
4A
5C
6A
7C
8B
9A
10A
11C
12C
13C
14A
15A
16B
17C
18C
19B
20C
21A
22C
23B
24C
25C
26A
27C
28A
29C
30B
31B
32A
33B
34A

35C	
36C	
37C	
38A	
39B	
40C	
41A	
42B	
43A	
44A	
45B	
46B	
47B	
48C	
49C	
50B	
51B	
52B	
53B	
54A	
Stage 2	
1A	
2C	
3A	
4C	
5B	
6B	
7B	
8C	
9C	
10C	
11A	
12C	
13B	

14A
15A
16C
17B
18B
19C
20A
21A
22A
23C
24A
25A
26B
27B
28A
29B
30A
31B
32A
33A
34B
35B
36B
37A
38C
39A
40B
41C
42B
43B
44A
45C
46A
47A
48C

49C
50B
51A
52C
53C
54C
55B
56C
57B
58C
59C
60A
61A
62C
63C
64A
65C
66C
66C
Stage 3
Stage 3
Stage 3 1
Stage 3 1
Stage 3 1 C 2 B 3 C 4 C
Stage 3 1 C 2 B 3 C 4 C 5 B
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B 8 B
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B 8 B 9 C
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B 8 B 9 C 10 C
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B 8 B 9 C
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B 8 B 9 C 10 C
Stage 3 1 C 2 B 3 C 4 C 5 B 6 C 7 B 8 B 9 C 10 C 11 A

Continued

14A	25A	36C	47B
15C	26A	37C	48C
16C	27C	38B	49C
17B	28C	39A	
18C	29B	40C	
19B	30B	41B	
20A	31A	42C	
21B	32A	43A	
22C	33A	44A	
23C	34C	45B	
24C	35C	46A	

Final Exam: Answers

1	. 10	. 27	
1В	19A	37C	55A
2B	20C	38C	56B
3B	21B	39C	57A
4A	22A	40B	58B
5A	23B	41A	59A
6B	24B	42B	60B
7A	25B	43B	
8B	26A	44A	
9B	27C	45B	
10B	28C	46C	
11A	29B	47B	
12B	30C	48A	
13A	31C	49C	
14C	32A	50A	
15A	33C	51A	
16B	34B	52C	
17C	35A	53B	
18B	36C	54A	

Enrollment Certificate This is to certify that Student Name is enrolled in the Federal Aviation Administration approved Private Pilot Certification Course, conducted by School and Certificate Number Chief Instructor Date of Enrollment

Graduation Certificat	e
This is to certify that	
Pilot Name and Number	
has satisfactorily completed each requi of training including the tests for those received hours of cross-country	stages, and has
	has graduated from the
Federal Aviation Administration approve Certification Course conducted by	ed Private Pilot
School and Certificate Number	
Chief Instructor	Date of Graduation

FAA Form 8710-1



FAA Form 8710-1, Airman Certificate and/or Rating Application **Supplemental Information and** Instructions

Paperwork Reduction Act Statement

The information collected on this form is necessary to determine applicant eligibility for airman ratings. We estimate it will take 30 minutes to complete this form. Please note that an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection is 2120-0021, and its expiration date is August 31, 2019. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC 20591, Attn: Information Collection Clearance Officer, ASP-110.

See attached Privacy Act Information and Pilot's Bill of Rights Written Notification of Investigation

Detach these supplemental information instruction parts before submitting the attached form. Instructions for completing this form (FAA 8710-1 form) are attached. If an electronic form is not printed on a duplex printer, the applicant's name, date of birth, and certificate number (if applicable) must be furnished on the reverse side of the application. This information is required for identification purposes. The applicant's social security number, telephone number, and e-mail address are optional.

For faster processing, the FAA encourages applicants to apply online using the FAA Integrated Airman Certification and Rating Application (IACRA). IACRA is available at https://iacra.faa.gov.

Tear off this cover before submitting form

AIRMAN CERTIFICATE AND/OR RATING APPLICATION

PRIVACY ACT STATEMENT: This statement is provided pursuant to 5 U.S.C. § 552(a):

The authority for collecting this information is contained in 49 U.S.C. §§ 40113, 44702, 44703, 44709, 44710, 44711 (a)(2) and 14 CFR Part 61. The principal purpose for which the information is intended to be used is to identify and evaluate your qualifications and eligibility for the issuance of an airman certificate and/or rating. Submission of the data is mandatory, except for the applicant's social security number which is optional. Failure to provide all required information will result in the FAA being unable to issue you a certificate and/or rating. The information collected on this form will be included in a Privacy Act System of Records known as DOT/FAA 847, titled "Aviation Records on Individuals" and will be subject to the routine uses published in the System of Records Notice for DOT/FAA 847 (see www.dot.gov/privacy/privacyactnotices), including:

- (a) Providing basic airmen certification and qualification information to the public upon request. Examples of basic information include:
 - The type of certificate(s) and/or rating(s) held, limitations, date of issuance and certificate number;
 - The status of the airman's certificate (i.e., whether it has been amended, modified, suspended or revoked for any reason);
 - The airman's home address, unless requested by the airman to be withheld from public disclosure per 49 U.S.C. 44703(c);
 - Information relating to an airman's physical status or condition used to determine statistically the validity of FAA
 medical standards, the date, class, and restrictions of the latest physical;
 - Information relating to an individual's eligibility for medical certification, requests for exemption from medical requirements, and requests for review of medical certificate denials.
- (b) Using contact information to inform airmen of meetings and seminars conducted by the FAA regarding aviation safety.
- (c) Disclosing information to the National Transportation Safety Board in connection with its investigation responsibilities.
- (d) Providing information about airmen to Federal, State, local and tribal law enforcement agencies when engaged in an official investigation in which an airman is involved.
- (e) Providing information about enforcement actions, or orders issued thereunder, to Federal agencies, the aviation industry, and the public upon request.
- (f) Making records of delinquent civil penalties owed to the FAA available to the U.S. Department of the Treasury and the U.S. Department of Justice (DOJ) for collection pursuant to 31 U.S.C. 3711(g).
- (g) Making records of effective orders against the certificates of airmen available to their employers if the airmen use the affected certificates to perform job responsibilities for those employers.
- (h) Making airmen records available to users of FAA's Safety Performance Analysis System (SPAS), including the Department of Defense Commercial Airlift Division's Air Carrier Analysis Support System (ACAS) for its use in identifying safety hazards and risk areas, targeting inspection efforts for certificate holders of greatest risk, and monitoring the effectiveness of targeted oversight actions.
- (i) Making records of an individual's positive drug test result, alcohol test result of 0.04 or greater breath alcohol concentration, or refusal to submit to testing required under a DOT-required testing program, available to third parties, including current and prospective employers of such individuals. Such records also contain the names and titles of individuals who, in their commercial capacity, administer the drug and alcohol testing programs of aviation entities.
- (j) Providing information about airmen through the Civil Aviation Registry's Comprehensive Airmen Information System to the Department of Health and Human Services, Office of Child Support Enforcement, and the Federal Parent Locator Service that locates noncustodial parents who owe child support. Records in this system are used to identify airmen to the child support agencies nationwide in enforcing child support obligations, establishing paternity, establishing and modifying support orders and location of obligors. Records listed within the section on Categories of Records are retrieved using Connect: Direct through the Social Security Administration's secure environment.
- (k) Making personally identifiable information about airmen available to other Federal agencies for the purpose of verifying the accuracy and completeness of medical information provided to FAA in connection with applications for airmen medical certification.
- (I) Making records of past airman medical certification history data available to Aviation Medical Examiners (AMEs) on a routine basis so that AMEs may render the best medical certification decision.
- (m) Making airman, aircraft and operator record elements available to users of FAA's Skywatch system, including the Department of Defense, the Department of Homeland Security (DHS), DOJ and other authorized Federal agencies, for their use in managing, tracking and reporting aviation-related security events.
- (n) Other possible routine uses published in the Federal Register (see Prefatory Statement of General Routine Uses for additional uses (65 FR 19477-78) For example, a record from this system of records may be disclosed to the United States Coast Guard (Coast Guard) and to the Transportation Security Administration (TSA) if information from this system was shared with either agency when that agency was a component of the Department of Transportation (DOT) before its transfer to DHS and such disclosure is necessary to accomplish a DOT, TSA or Coast Guard function related to this system of records.

ii

Your signature on this form (FAA Form 8710-1) acknowledges that you received the Pilot's Bill of Rights Written Notification of Investigation at the time of this application.

PILOT'S BILL OF RIGHTS WRITTEN NOTIFICATION OF INVESTIGATION

The information you submit on the attached FAA Form 8710-1, Airman Certificate and/or Rating Application, will be used by the Administrator of the Federal Aviation Administration as part of the basis for issuing an airman certificate, rating, or inspection authorization to you under Title 49, United States Code (U.S.C.) section 44703(a), if the Administrator finds, after investigation, that you are qualified for, and physically able to perform the duties related to the certificate, rating, or inspection authorization for which you are applying. Therefore, in accordance with the Pilot's Bill of Rights, the Administrator is providing you with this written notification of investigation of your qualifications for an airman certificate, rating, or inspection authorization:

- The nature of the Administrator's investigation, which is precipitated by your submission of this application, is to determine whether you meet the qualifications for the airman certificate, rating, or inspection authorization you are applying for under Title 14, Code of Federal Regulations (CFR) part 61.
- Any response to an inquiry by a representative of the Administrator by you in connection with this investigation of your qualifications for an airman certificate, rating, or inspection authorization may be used as evidence against you.
- A copy of your airman application file for this date is available to you upon your written request addressed to:

Federal Aviation Administration Airmen Certification Branch, AFB-720 P.O. Box 25082 Oklahoma City, OK 73125-0082

(If you make a written request for your airman application file, please provide your full name, date of birth or airman certification number for identification purposes, and the date of application.)

AIRMAN CERTIFICATE AND/OR RATING APPLICATION INSTRUCTIONS FOR COMPLETING FAA FORM 8710-1

I. APPLICATION INFORMATION. Mark "X" in all appropriate blocks(s).

Note: Please enter all dates in eight digits as MM/DD/YYYY. Use numeric characters, (e.g. 01/01/2014).

- Block A. Name. Enter full legal name (Last, First, Middle). If your full legal name is more than 50 characters, use no more than one middle name for record purposes. Do not change the name on subsequent applications unless it is done in accordance with 14 CFR part 61.25. If you do not have a middle name, enter "NMN." If you have a middle initial only, indicate "Initial only." Indicateif you are a Jr., II, or III.
- Block B. Social Security Number. Enter either your 9-digit social security number, "Do Not Use" or "None" if you are not a U.S. citizen. If entering a social security number, only enter a 9-digit U.S. social security number (optional). See supplemental Privacy Act Information.
- Block C. Date of Birth. Enter your date of birth in the following format: MM/DD/YYYY. Check for accuracy. Verify that DOB is the same as it is on the medical certificate.
- Block D. Place of Birth. If you were born in the USA, enter the city and state where you were born. If the city is unknown, enter the county and state. If you were born outside the USA, enter the name of the city and country where you were born.
- Block E1. Residential Address. Enter your complete residential address. This must include street number, city, state, and zip code. If the applicant has a foreign address, the country must be stated. If a residential address does not exist, a map or written directions to the applicant's physical residence must be attached to the application. Verify that the numbers are nottransposed.
- Block E2. Mailing Address. Enter your mailing address, if different than block E1. This may be a residence, post office box, rural route, flight school address, personal mail box (PMB), commercial address, or other mail drop location, as applicable. The address provided in block E2, if any, will be printed on the permanent airman certificate. If you want your airman certificate mailed to an address other than provided in blocks E1 or E2, you will need to provide instructions on a separate attachment or in the remarks section of the form.
- Block F. Citizenship/Nationality. Mark USA if you are a U.S. Citizen or legally naturalized U.S. Citizen. If you are not a U.S. citizen, mark "Other" and enter the country where you are a legal citizen. To claim Dual Citizenship the applicant must present appropriate documentation of citizenship for each country.
- Block G. Do you read, speak, write and understand the English language? Mark yes or no. If you answered "No" and it is due to medical reasons, an operating limitation will be placed on the airman certificate.
- **Block H. Height.** Enter your height in inches. Example: 5'8" would be entered as 68 in. No fractions, use whole inches only.
- Block I. Weight. Enter your weight in pounds. No fractions, use whole pounds
- Block J. Hair Color. Spell out the color of your hair. Choose from the following: bald, black, blond, brown, gray, red or white. If you wear a wig or toupee, enter the color of your hair under the wig or toupee.
- **Block K. Eye Color.** Spell out the color of your eyes. Choose from the following: black, blue, brown, gray, green, or hazel.
- Block L. Sex. Mark either Male or Female as appropriate
- Block M. Do You Hold or Have You Ever Held An FAA Pilot Certificate? Mark yes or no. (NOTE: A student pilot certificate is a pilot certificate.) If. Yes, complete Blocks M1, M2, and M3.
- Block M1. Grade of Certificate. Enter the grade of the FAA pilot certificate you hold (i.e., Student, Recreational, Private, Commercial, or ATP). DO NOT enter flight instructor certificate information.
- **Block M2.** Certificate Number. Enter your current FAA certificate number as it appears on the pilot certificate.

- Block M3. Date Issued. Enter the date your pilot certificate was last issued.
- Block N. Do You Hold, or Have You Ever Held a Medical Certificate? Mark applicable boxes. If yes, complete blocks N1, N2, and N3.
- Block N1. Class of Medical Certificate. Enter the class as shown on the medical certificate, (i.e., First, Second, or Third Class). If your most recent medical certificate which was valid at some point after July 14th, 2006 has expired and you are operating under BasicMed, enter "BASICMED" in this field.
- Block N2. Name of Medical Examiner. Enter the medical examiner's name as shown on your medical certificate. If you are operating under BasicMed, leave blank.
- **Block N3. Date Issued.** Enter the date your medical certificate was issued. If you are operating under BasicMed, leave blank.
- Block O. Narcotics Drugs. Mark appropriate block. Only mark "Yes" if you have actually been convicted. If you have been charged with a violation which has not been adjudicated, mark "No." Do not include alcohol offenses involving a motor vehicle mode of transportation as those are covered on the FAA Form 8500-8, Medical application.
- Block O1. Date of Final Conviction. If block "N" was marked "Yes" provide the date of final conviction.

II. CERTIFICATE OR RATING APPLIED FOR ON BASIS OF: Block A. Completion of Required Test.

- Aircraft to be used. (If flight test required) Enter the makeand model of each aircraft used or represented. If a flight simulation training device (FSTD) is used, indicate Level of Device(s).
- Total time in this aircraft and/or approved full flight simulator (FFS) or flight training device (FTD) (Hrs.) – (2a) Enter the total Flight Time (2b) Enter Pilot-In-Command (PIC) Flight Time.
- Block B. U.S. Military Competence Or Experience. Enter your branch of service, date rated as a U.S. military pilot, and your rank or grade. In block 4a and 4b, enter the make and model of each military manned aircraft used to qualify (as appropriate). ATD, FTD, or FFS time cannot be used.

Block C. Graduate of an Approved Course.

- Name, Location, Certification Number of Training Agency/Center, as shown on the graduation certificate. Indicate if this was a part 142 training center.
- Curriculum From Which Graduated. Enter name of curriculum and level, category, and/or type rating, as applicable.
- 3. Date. Date of graduation from indicated course.
- Note: Approved course graduate must also complete block A "Completion of Test or Activity," if the course is not part of an Air Agency or a part 142 Training Center.

Block D. Holder of Foreign License.

- 1. Country that Issued the Foreign Pilot License.
- 2. Grade Of Foreign Pilot License (i.e. private, commercial, etc).
- 3. Number. Number which appears on the foreign license.
- Ratings. Enter the FAA equivalent only ratings that appear on the foreign license. Indicate the ratings as they will appear on the FAA Certificate (i.e. ASEL, AMEL, ROTORCRAFT HELICOPTER, CE-500, etc).

Block E. Completion of Air Carrier's Training Program.

- Name of air carrier.
- Date program was started.
- 3. Identify the training program accomplished.
- III. RECORD OF PILOT TIME. At a minimum, the applicant should complete the blocks applicable to the certificate or rating sought; however, it is recommended that all pilot time be entered. If decimal points are utilized, ensure that they are legible. Time entered in the "Class Totals" block should reflect time in aircraft class for the certificate or rating sought with this application. The time entered for an FFS, FTD, and/or ATD may be credited towards the total time in the category, class, and instrument time as permitted by the regulations. Add any Flight Engineer time used for ATP in remarks section.
- IV. HAVE YOU PREVIOUSLY RECEIVED A NOTICE OF DISAPPROVAL OR BEEN DENIED FOR ANY REASON FOR THE CERTIFICATE AND/OR RATING FOR WHICH YOU ARE APPLYING? Mark "Yes" or "No" as appropriate.

V. APPLICANT'S CERTIFICATION.

- A. Signature. Sign your name.
- B. Date. The date you signed the application.

FAA Form 8710-1 (10-17) Supersedes Previous Edition

Form approved OMB No: 2120-0021 08/31/2019 TYPE OR PRINT ALL ENTRIES IN INK 2 U.S. Department of Transportation Federal Aviation Administration Airman Certificate and/or Rating Application APPLICATION INFORMATION (Mark 'X' in all the blocks applicable to the certificate or rating for which you are applying) Other Information/Requests Ratings Pilot: Instructor Category and/or Class Instrument Ground Instructor: Reexamination Instrument Proficiency Check Initial Recreational Flight ASE AME Land Sea Airplane Basic Student Renewal Reissuance Medical Flight Test Balloon Glider Helicopter Helicopter Advanced Private Commercial Ground Gyroplane Airship Powered-Lift Reinstatement Flight Review Limitation Removal Powered-Lift Instrument ATP-Restricted ATP Type Rating. Added Rating Specify other: A. Name (Last, First, Middle) B. SSN (US Only) D. Place of Birth (City and State) or (City and Country) C. Date of Birth E1. Residential Address E2. Mailing Address (This address will be printed on the F. Citizenship / Nationality G. Do you read, Yes (Including City, State, Zip Code, and Country) manent airman certificate, if different than block E1.) speak, write, & USA Other understand the ☐ No specify English language? L. Sex H. Height | I. Weight | J. Hair Color K. Eye Color Male Female M. Do you hold, or have you ever held an FAA pilot certificate? M1. Grade of Certificate M2. Certificate Number M3. Date Issued ☐ No N. Do you hold, or have you ever held a Medical Certificate? N1. Class of Certificate N2. Name of Medical Examiner N3. Date Issued Yes - FAA Yes - Foreign Yes - Military No O. Have you ever been convicted for violation of any Federal or State statutes relating to narcotic drugs, marijuana, or depressant or stimulant drugs or substances? Do not include alcohol offenses involving O1. Date of Final Conviction otor vehicle mode of transportation as those offenses are covered on the FAA Form 8500-8, Airman Medical Application Form. Yes II. CERTIFICATE OR RATING APPLIED FOR ON BASIS OF: Completion of 1. Aircraft to be used (If flight test required) h As Pilot-in-2. Total time in this aircraft and/or a. Flight A. Test or Activity approved FFS or FTD (hours): Command 2. Date Rated in U.S. Military 3. Rank or Grade 1. U.S. Military Service U.S. Military B. Competence or 4. List Military aircraft | a. logged pilot time or provided flight instruction (IP) (make and model) | b. passed an Instrument Proficiency Check (Pilot or CFI) - (make and model) Experience for which you have: 1.Training Agency 1a. Name 1b. Location (City and State) 1c. Certification Number 1d. Part 142? Graduate of an 🗌 Yes 🔲 No or Training Center: □ C. Approved 2. Curriculum From Which Graduated (Level, Category, and Class and/or Type Rating) 3. Date Course 1. Country that Issued the Foreign Pilot License 2. Grade of Foreign Pilot License 3. Foreign Pilot License Number Holder of ___ D. Foreign 4. Ratings Held on Foreign Pilot License (FAA equivalent only - e.g. ASEL, AMEL, Type rating, etc.) License 1. Name of Air Carrier 2. Date Training Began 3. Accomplished Training Program Air Carrier E. Training Program Initial Upgrade Transition Recurrent III. RECORD OF PILOT TIME (Do not write in the shaded areas) ross Country Night Take-Off / Landing Cross Country PIC/SIC Night PIC/SIC Off/Landing PIC/SIC Flights Aero-Tow Gliders Airplanes Class Totals Rotorcraft SEL MEL SES MES Powered Gyroplane Gliders Ralloor Airship Lighter ighter-than han-Air FFS FFS FTD ATD IV. Have you previously received a Notice of Disapproval or been denied for any reason for the certificate AND/OR rating for which you are applying? V. APPLICANT'S CERTIFICATION: I certify that all statements and answers provided by me on this application form are complete and true to the best of my knowledge and I agree that they are to be considered as part of the basis for issuance of any FAA certificate to me. I have received the Pilot's Bill of Rights Written Notification of Investigation that accompanies this form. I have also read and understand the Privacy Act statement that accompanies this form. Signature of Applicant Date Page 1 of 2 FAA Form 8710-1 (10-17) Supersedes Previous Edition

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