

NORTH AERO

AVIATION SERVICES · KSNS SALINAS, CALIFORNIA

PRIVATE PILOT TRAINING SYLLABUS

LESSON CHECKLIST BOOK · CURRICULUM 5.1

Airplane Single-Engine Land · PA-28-151 Warrior · FAA-S-ACS-6C

38 lessons across four phases

Student: _____

Start date: _____

Instructor: _____

BEFORE YOU BEGIN

HOW TO USE THIS BOOK

This book is your record of every element of Private Pilot training. Each lesson lists the tasks you will cover, drawn directly from the North Aero Curriculum 5.1 lesson plans and tied to the FAA Airman Certification Standards (FAA-S-ACS-6C) and 14 CFR Part 61.

Work through the lessons in order. As you complete each task with your instructor, check the box. When every task in a lesson meets the completion standard, you and your instructor sign the lesson off at the bottom of the page.

The codes in brackets are the FAA references for each task. PA codes are ACS areas of operation and tasks; 61.87(d) codes are the pre-solo maneuver requirements; 61.93(e) codes are the cross-country training requirements. They let you and your instructor trace every task to the standard it satisfies.

READING A TASK LINE

- Do = student performs the task
- Practice = repeated performance toward the standard
- Directed performance = student performs with instructor direction
- Demonstration = instructor demonstrates the task
- Ground = covered in the preflight or postflight briefing

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PHASE 1 · Lessons 1-11

FUNDAMENTALS

Airplane control and maneuvers, systems, emergency procedures, and the three decision-making scenarios.

LESSON 1 · PHASE 1 · DUAL

Introduction to Flight

Estimated time: Ground 1.5 hr Dual 1 hr Solo 0 hr**OBJECTIVE**

First lesson familiarization with airplane, operating procedures, sensations of flight, local area. Student gets familiar with flight controls and cockpit layout.

TASKS AND ELEMENTS

- ☐ Airplane familiarization - Ground [PA.I.G] [PA.II.B] [61.87(d)(1)]
 - ☐ Preflight Inspection [PA.II.A]
 - ☐ Cockpit familiarization [PA.I.G]
 - ☐ Preflight Planning (PAVE) [PA.I.H] [PA.I.C] [PA.I.E] [PA.I.F] [PA.I.A] [PA.I.B]
 - *IMSAFE*
 - *Aircraft Airworthiness*
 - *Weather Briefing*
 - *NOTAMS and TFRs*
 - *Weight and Balance*
 - *Performance Data*
 - *Airport Information and Charts*
 - *Safety Briefing*
 - *Objectives and tasks outlined*
- ☐ Starting the engine - Demonstration [PA.II.C] [61.87(d)(1)]
- ☐ Radio communications - Do [PA.III.A] [61.87(d)(1)]
- ☐ Taxiing - Demonstration or directed performance [PA.II.D] [61.87(d)(2)]
- ☐ Pre Takeoff Check - Demonstration with student checklist participation [PA.II.F] [61.87(d)(2)]
- ☐ Takeoff, traffic pattern, and climbout - Demonstration [PA.IV.A] [PA.III.B] [61.87(d)(3)(5)(6)]
- ☐ Familiarization flight - Demonstration and performance by student [PA.VIII.A] [61.87(d)(4)]
 - ☐ Control effects and usage
 - ☐ Flight area familiarization
 - ☐ Straight and level flight
 - ☐ Pitch and bank control
 - ☐ Approach, traffic pattern, landing, and parking [PA.IV.B] [PA.XII.A]
- ☐ Postflight discussion - Student Guided
- ☐ Preview of next lesson

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 2 · PHASE 1 · DUAL

Basic Maneuvers: Slow Flight, Stalls, Steep Turns Intro

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Review of first lesson and introduction to PTS maneuvers required before solo. Slow flight, steep turns, and approach stalls introduced. Maneuvers require division of attention.

TASKS AND ELEMENTS

- ☐ Preflight discussion - Go over objectives and review procedures [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Student completes preflight planning - PAVE - Directed Performance [PA.I.H] [61.87(d)(1)]
- ☐ Student completes walk around - Directed Performance [PA.II.A] [61.87(d)(1)]
- ☐ Starting engine - Directed Performance and Practice [PA.II.C] [61.87(d)(1)]
- ☐ Radio communication procedures - Do [PA.III.A] [61.87(d)(1)]
- ☐ Taxiing - Do [PA.II.D] [61.87(d)(2)]
- ☐ Pre takeoff check - Directed performance [PA.II.F] [61.87(d)(2)]
- ☐ Takeoff and traffic pattern - Directed performance [PA.IV.A] [PA.III.B] [61.87(d)(3)(6)]
- ☐ Climbing turns - Directed performance [PA.VIII.B] [61.87(d)(5)]
- ☐ Straight and level - Directed performance [PA.VIII.A] [61.87(d)(4)]
- ☐ Medium turns - Demonstration and directed performance [61.87(d)(4)]
- ☐ Slow Flight - Demonstration and directed performance [PA.VII.A] [61.87(d)(9)]
- ☐ Power off stalls - Demonstration and directed performance [PA.VII.B] [61.87(d)(10)]
- ☐ Steep turns - Demonstration only [PA.V.A]
- ☐ Confidence maneuvers - Demonstration of aircraft stability and rudder usage
- ☐ Descents and gliding turns - Demonstration and directed performance [PA.VIII.C] [61.87(d)(8)]
- ☐ Approach, traffic pattern, and landing - Demonstration and directed performance [PA.IV.B] [61.87(d)(3)]
- ☐ Postflight Discussion
- ☐ Preview of next lesson

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 3 · PHASE 1 · DUAL

Four Fundamentals and Coordination

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr**OBJECTIVE**

Student should attain reasonable proficiency in four basic flight maneuvers, perform without assistance slow flight, power-off stalls, and simple coordination exercises. Student responsible for preflight, starting, radio, taxiing, parking without direction hereafter.

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student outlines objectives and procedures [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Student completes preflight planning - PAVE - Do [PA.I.H] [61.87(d)(1)]
- ☐ Pre flight inspection - Do [PA.II.A] [61.87(d)(1)]
- ☐ Starting engine - Do [PA.II.C] [61.87(d)(1)]
- ☐ Radio communication procedures - Do [PA.III.A] [61.87(d)(1)]
- ☐ Taxiing - Do [PA.II.D] [61.87(d)(2)]
- ☐ Pre takeoff check - Practice [PA.II.F] [61.87(d)(2)]
- ☐ Takeoff and traffic pattern - Practice [PA.IV.A] [PA.III.B] [61.87(d)(3)(6)]
- ☐ Climbs and Climbing turns - Practice [PA.VIII.B] [61.87(d)(5)]
- ☐ Level off from climbs and descents - Do [61.87(d)(4)(8)]
- ☐ Straight and level with speed changes - Practice [PA.VIII.A] [61.87(d)(4)(9)]
- ☐ Medium turns - Practice [61.87(d)(4)]
- ☐ Slow Flight - Practice [PA.VII.A] [61.87(d)(9)]
- ☐ Power off stalls - Practice [PA.VII.B] [61.87(d)(10)]
- ☐ Coordination exercises (Dutch Roll) - Demonstration and directed performance
- ☐ Descents and gliding turns - Do [PA.VIII.C] [61.87(d)(8)]
- ☐ Approach, traffic pattern, and landing - Directed performance [PA.IV.B] [61.87(d)(3)]
- ☐ Postflight Discussion - Do
- ☐ Preview of next lesson - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 4 · PHASE 1 · DUAL

Stall Recovery, Ground Reference, Instrument Intro, Go-Around Intro

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Student should recognize and recover smoothly from stalls without direction, fly prescribed ground reference patterns, execute traffic pattern and landing approach with direction. Introduction to go-arounds and emergency descent concept.

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Student completes preflight planning - PAVE - Do [PA.I.H] [61.87(d)(1)]
- ☐ Pre flight inspection - Do [PA.II.A] [61.87(d)(1)]
- ☐ Starting engine - Do [PA.II.C] [61.87(d)(1)]
- ☐ Radio communication procedures - Do [PA.III.A] [61.87(d)(1)]
- ☐ Taxiing - Do [PA.II.D] [61.87(d)(2)]
- ☐ Pre takeoff check - Do [PA.II.F] [61.87(d)(2)]
- ☐ Takeoff and traffic pattern - Do [PA.IV.A] [PA.III.B] [61.87(d)(3)(6)]
- ☐ Climbs and climbing turns - Practice [PA.VIII.B] [61.87(d)(5)]
- ☐ Straight and level - Practice [PA.VIII.A] [61.87(d)(4)]
- ☐ Slow Flight - Practice [PA.VII.A] [61.87(d)(9)]
- ☐ Power off stalls - Practice [PA.VII.B] [61.87(d)(10)]
- ☐ Instrument flying [PA.VIII.D] [PA.VIII.C]
 - ☐ Turns to headings (Hood work) - Directed performance
 - ☐ Descents and level offs (Hood work) - Directed performance
- ☐ Ground reference maneuvers - Demonstrated and directed performance [PA.V.B] [61.87(d)(12)]
 - ☐ Following road or river - Directed performance
 - ☐ S turns across a road - Directed performance
 - ☐ Rectangular course - Directed performance
- ☐ Go-around - Demonstration and directed performance [PA.IV.N] [61.87(d)(15)]
- ☐ Emergency descent introduction - Demonstration [PA.IX.A]
- ☐ Elementary forced landing - Demonstration and directed performance [PA.IX.B] [61.87(d)(13)]
- ☐ Approach, traffic pattern, and landing - Directed performance [PA.IV.B] [61.87(d)(3)]
- ☐ Postflight Discussion
- ☐ Preview of next lesson

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart • View Limiting Device (Hood)

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 5 · PHASE 1 · DUAL

Emergency Procedures and Instrument Flying

Estimated time: Ground 1.5 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Student should recognize and recover smoothly from stalls, fly ground reference maneuvers, fly on instruments under hood at another airport. Emergency procedures introduced including emergency descent, emergency equipment/survival gear, and radar services (flight following).

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Student completes preflight planning - Do [PA.I.H] [61.87(d)(1)]
- ☐ Pre flight inspection - Do [PA.II.A] [61.87(d)(1)]
- ☐ Radar services and emergencies [PA.VIII.F] [PA.IX.C]
- ☐ Instrument flying review - Practice [PA.VIII.D]
- ☐ Ground reference review - Do [PA.V.B]
- ☐ Emergency procedures practice - Practice [PA.IX.B] [PA.IX.C]
- ☐ Postflight Discussion - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Aircraft Checklist • Sectional Chart • View Limiting Device (Hood)

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 6 · PHASE 1 · DUAL

Maneuver Review and Emergency Procedures

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Review of flight maneuvers and procedures in preparation for takeoff and landing work. Reasonable proficiency in coordination, airspeed control, and ground reference should be achieved. Emergency procedures reinforced.

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Comprehensive maneuvers review - Do [PA.IV.A] [PA.VII.A]
- ☐ Emergency procedures review - Practice [PA.IX.B] [PA.IX.C]
- ☐ Approach and landing - Directed performance [PA.IV.B]
- ☐ Postflight Discussion - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Emergency Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 7 · PHASE 1 · DUAL

Takeoffs and Landings, Steep Turns, Stalls

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Concentrated practice of takeoffs and landings. Steep turns and accelerated stalls introduced. Go-arounds practiced from each landing approach. Student should make directed takeoffs and landings without assistance on controls.

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Takeoffs and landings practice - Practice [PA.IV.A] [PA.IV.B]
- ☐ Go-arounds practice - Practice [PA.IV.N]
- ☐ Steep turns and stalls - Directed performance [PA.V.A] [PA.VII.C]
- ☐ Emergency descent review - Practice [PA.IX.A]
- ☐ Postflight Discussion - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 8 · PHASE 1 · DUAL

Crosswind, Slips, Soft Field, Go-Arounds

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Crosswind takeoffs and landings added, slips introduced. Student should make unassisted takeoffs and landings and fly accurate traffic pattern. Go-arounds practiced from multiple scenarios.

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Crosswind operations - Demonstration and practice [PA.IV.A] [PA.IV.B]
- ☐ Slips and soft field work - Do [PA.IV.M] [PA.IV.C]
- ☐ Multiple go-around scenarios - Practice [PA.IV.N]
- ☐ Postflight Discussion - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 9 • PHASE 1 • DUAL

The Mumble (Scenario: Lost Communications)

Estimated time: Ground 1.5 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Scenario-based lesson testing decision making in evaluating risks associated with aircraft communications. Student departs to practice area, requests flight following, practices assigned maneuvers, then encounters alternator failure. Battery dies before pattern entry at towered airport. Student must exercise prescribed procedures for lost communications entry into Class Delta.

TASKS AND ELEMENTS

- ☐ Preflight briefing on scenario - Ground training [PA.I.G] [PA.I.H] [PA.IX.C] [PA.I.A] [PA.I.B]
- ☐ Departure and flight following - Do [PA.VIII.F]
- ☐ Maneuvers practice and emergency simulation - Practice [61.87(d)(4)(9)]
- ☐ Alternator failure and electrical management - Directed performance [PA.IX.C]
- ☐ Lost communications procedures - Directed performance [PA.III.A]
- ☐ Class D entry without radio - Directed performance [61.87(d)(6)]
- ☐ Approach and landing - Directed performance [PA.IV.B]
- ☐ Postflight ADM discussion - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 10 · PHASE 1 · DUAL

When the Fan Stops (Scenario: Engine Failure on Departure)

Estimated time: Ground 1.5 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Scenario-based lesson focused on engine failure awareness during departure and traffic pattern operations. Student learns the physics of G-loading and stall speed (at 0G there is no stall speed, so pushing forward is essential), practices the CHORRD departure briefing, and executes multiple simulated engine failures at different positions in the traffic pattern. The impossible turn is addressed directly at altitude: student experiences why turning back below pattern altitude results in a stall/spin. Builds judgment for when landing ahead is the only survivable option.

TASKS AND ELEMENTS

- ☐ Ground briefing: Pipistrel KSNS video, NTSB case review, CHORRD departure briefing, impossible turn geometry - Ground training [PA.IX.C.K1a] [PA.IX.C.K1b] [PA.I.H.K4]
- ☐ CHORRD departure briefing practice on the ramp before engine start - Directed performance [PA.I.H.R1] [PA.I.H.R3]
- ☐ Departure and climb to practice area (minimum 3,000 ft AGL) - Do [PA.IV.A]
- ☐ G-loading and stall speed demonstration: instructor demonstrates that reducing G-load (pushing forward) lowers stall speed to near zero. At 0G there is no stall speed. At 2G the stall speed increases by 41%. Student experiences the difference. - Demonstrated [PA.V.A.K2d] [PA.I.F.K3]
- ☐ Impossible turn simulation at altitude: instructor pulls power, student attempts 180-degree turnback with 45-degree bank. Student observes altitude loss required. Repeat with 30-degree bank and compare. Teaching point: you cannot make it back below 500 ft AGL. - Directed performance [PA.IX.C.K1a] [PA.IX.C.K1b]
- ☐ Engine failure on upwind: instructor pulls power after takeoff at pattern altitude. Student pitches for best glide, identifies landing options ahead, executes ABCDE. No turn back. - Directed performance [PA.IX.C.K1a]
- ☐ Engine failure on crosswind: instructor pulls power on crosswind leg. Student evaluates options, considers wind, selects landing area. - Directed performance [PA.IX.C.K1a]
- ☐ Engine failure on downwind: instructor pulls power abeam the numbers. Student has altitude and options. May attempt modified pattern to runway. Judgment exercise. - Directed performance [PA.IX.C.K1a] [PA.IX.C.K1b]
- ☐ Engine failure on base/final: instructor pulls power on base or final. Student maintains glide speed, adjusts aim point, commits to landing. - Directed performance [PA.IX.C.K1a]
- ☐ Postflight ADM debrief: review each engine failure decision, discuss the Pipistrel video, reinforce CHORRD as habit - Do [PA.I.H.R1]

ITEMS NEEDED

• CHORRD Departure Briefing card • Aircraft POH/AFM (glide performance data) • KSNS airport diagram with surrounding terrain/field options • Impossible turn altitude calculation worksheet (from Module 5) • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 11 · PHASE 1 · DUAL

The Real Pickle (Scenario: Diversion)

Estimated time: Ground 1.5 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Scenario-based lesson testing decision making with weather, aircraft limitations, and personal limitations. Student departs to practice area, practices stalls and emergency procedures, returns to find home airport closed by weather. Must divert to unfamiliar airport choosing between grass strip (into wind) or strong crosswind on paved runway.

TASKS AND ELEMENTS

- ☐ Preflight briefing on diversion scenario - Ground training [PA.I.H] [PA.I.C] [PA.VI.C] [PA.I.A] [PA.I.B]
- ☐ Departure and maneuvers - Practice [PA.VII.A] [PA.IX.B]
- ☐ Weather closure simulation - Directed performance [PA.VI.C]
- ☐ Diversion planning and navigation - Directed performance [PA.VI.A] [PA.VI.C]
- ☐ Unfamiliar airport entry and landing - Directed performance [PA.IV.B] [PA.IV.D]
- ☐ Postflight ADM discussion - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

PHASE 2 · Lessons 12-16

CROSS-COUNTRY AND NIGHT

Instrument work, the dual cross-countries, and the first night flying.

LESSON 12 · PHASE 2 · DUAL

Instrument Work, Compass, Unusual Attitudes, Short Field

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Student develops instrument flying proficiency under the hood including compass turns, unusual attitude recovery. Introduction to short-field operations. Practice requesting and using radar services (flight following).

TASKS AND ELEMENTS

- ☐ Preflight discussion - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications and request flight following - Do [PA.III.A] [PA.VIII.F]
- ☐ Straight-and-level flight (hood) - Practice [PA.VIII.A]
- ☐ Constant airspeed climbs (hood) - Practice [PA.VIII.B]
- ☐ Constant airspeed descents (hood) - Practice [PA.VIII.C]
- ☐ Turns to headings using magnetic compass (hood) - Directed performance [PA.VIII.D]
- ☐ Recovery from unusual flight attitudes (hood) - Directed performance [PA.VIII.E]
- ☐ Short-field takeoff and climb - Demonstration and directed performance [PA.IV.E]
- ☐ Short-field approach and landing - Demonstration and directed performance [PA.IV.F]
- ☐ Forward slip to a landing - Practice [PA.IV.M]
- ☐ Radar services practice (flight following for entire flight) - Practice [PA.VIII.F]
- ☐ Normal approach and landing - Do [PA.IV.B]

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • View-limiting device (hood/foggles)

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 13 · PHASE 2 · DUAL

First Dual Cross-Country

Estimated time: Ground 2.5 hr Dual 2.5 hr Solo 0 hr**OBJECTIVE**

Student plans and executes first dual cross-country flight. Practices pilotage, dead reckoning, VOR/GPS navigation, flight following, and unfamiliar airport operations. All 61.93(e) XC training items introduced.

TASKS AND ELEMENTS

- ☐ Cross-country flight planning (complete nav log, W&B, fuel) - Do [PA.I.D] [PA.I.F] [61.93(e)(1)]
- ☐ Weather briefing and NOTAM review - Do [PA.I.C] [61.93(e)(2)]
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Request flight following on departure - Do [PA.VIII.F] [61.93(e)(7)]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Pilotage and dead reckoning (checkpoint tracking) - Directed performance [PA.VI.A] [61.93(e)(3)]
- ☐ VOR/GPS navigation and course tracking - Directed performance [PA.VI.B] [61.93(e)(4)]
- ☐ Airspace identification enroute - Do [PA.I.E] [61.93(e)(6)]
- ☐ Communications with ATC (frequency changes, handoffs) - Do [PA.III.A] [61.93(e)(7)]
- ☐ Unfamiliar airport entry and landing - Directed performance [PA.IV.B] [61.93(e)(8)]
- ☐ Fuel management check - Do [61.93(e)(5)]
- ☐ Departure from unfamiliar airport - Do [PA.IV.A] [61.93(e)(9)]
- ☐ Return leg navigation - Practice [PA.VI.A] [PA.VI.B]
- ☐ Normal approach and landing - Do [PA.IV.B]

ITEMS NEEDED

• Completed nav log • Sectional Chart • Plotter • E6B/CX3 • Weather briefing printout • Airport Facility Directory • W&B worksheet

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 14 · PHASE 2 · DUAL

Dual Triangular Cross-Country

Estimated time: Ground 2.5 hr Dual 3 hr Solo 0 hr

OBJECTIVE

Student plans and executes triangular XC with multiple stops. Practices lost procedures, diversion (building on Real Pickle scenario), and radar services. Go-around practice at unfamiliar airport. Meets most remaining 61.93(e) requirements.

TASKS AND ELEMENTS

- ☐ Cross-country planning (triangular route, nav log, W&B) - Do [PA.I.D] [PA.I.F] [61.93(e)(1)]
- ☐ Weather briefing and analysis - Do [PA.I.C] [61.93(e)(2)]
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Request flight following - Do [PA.VIII.F] [61.93(e)(7)]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Pilotage and dead reckoning (first leg) - Practice [PA.VI.A] [61.93(e)(3)]
- ☐ VOR/GPS navigation and course corrections - Practice [PA.VI.B] [61.93(e)(4)]
- ☐ Simulated lost procedure exercise - Directed performance [PA.VI.D] [61.93(e)(12)]
- ☐ Go-around at unfamiliar airport - Practice [PA.IV.N]
- ☐ Landing at first intermediate airport - Practice [PA.IV.B] [61.93(e)(8)]
- ☐ Departure and second leg navigation - Do [PA.VI.A] [61.93(e)(9)]
- ☐ Diversion practice (simulated weather, building on Real Pickle) - Directed performance [PA.VI.C]
- ☐ Fuel management and awareness - Do [61.93(e)(5)]
- ☐ Airspace transitions - Do [PA.I.E] [61.93(e)(6)]
- ☐ Radar services (handoffs, frequency changes) - Practice [PA.VIII.F]
- ☐ Return and normal approach/landing - Do [PA.IV.B]

ITEMS NEEDED

• Completed nav log (triangular) • Sectional Chart • Plotter • E6B/CX3 • Weather briefing • Airport Facility Directory • W&B worksheet

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 15 · PHASE 2 · DUAL

Short/Soft Field, Emergency Procedures, XC Emergencies

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Student practices short-field and soft-field operations to near-ACS standard. Emergency descent to ACS standard. Emergency equipment and survival gear review. XC emergency scenarios.

TASKS AND ELEMENTS

- ☐ Preflight discussion including emergency equipment review - Do [PA.I.H] [PA.IX.D] [61.93(e)(10)(11)] [PA.I.A] [PA.I.B]
- ☐ Preflight inspection with focus on emergency equipment location - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Soft-field takeoff and climb - Practice [PA.IV.C]
- ☐ Soft-field approach and landing - Practice [PA.IV.D]
- ☐ Short-field takeoff and maximum performance climb - Practice [PA.IV.E]
- ☐ Short-field approach and landing - Practice [PA.IV.F]
- ☐ Forward slip to a landing - Practice [PA.IV.M]
- ☐ Emergency descent to ACS standard - Practice [PA.IX.A] [61.93(e)(4)]
- ☐ Emergency approach and landing (simulated) - Practice [PA.IX.B]
- ☐ Systems and equipment malfunctions (XC scenarios) - Practice [PA.IX.C]
- ☐ Emergency equipment and survival gear review - Directed performance [PA.IX.D]
- ☐ Steep turns review - Do [PA.V.A]
- ☐ Slow flight review - Do [PA.VII.A]
- ☐ Normal approach and landing - Do [PA.IV.B]

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Emergency equipment checklist • Aircraft POH (emergency procedures section)

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 16 · PHASE 2 · DUAL+SOLO

Night Flight: Local Area and Landings

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0.5 hr

OBJECTIVE

First night flight lesson. Student becomes familiar with night environment, night preflight, night illusions, and night takeoffs/landings. Go-around practice at night. Meets partial 61.109(a)(2) night requirements.

TASKS AND ELEMENTS

- ☐ Preflight discussion: night flying rules, physiology, illusions - Do [PA.I.H] [PA.XI.A] [PA.I.A] [PA.I.B]
- ☐ Night preflight inspection (flashlight inspection, lighting check) - Directed performance [PA.II.A] [PA.XI.A]
- ☐ Engine start with cockpit lighting setup - Do [PA.II.C]
- ☐ Night taxi procedures - Directed performance [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Night takeoff and departure - Directed performance [PA.IV.A] [PA.XI.A]
- ☐ Local area familiarization at night (visual references, landmarks) - Directed performance [PA.XI.A]
- ☐ Steep turns at night - Practice [PA.V.A]
- ☐ Night traffic pattern operations - Directed performance [PA.III.B] [PA.XI.A]
- ☐ Night normal approach and landing (multiple) - Directed performance [PA.IV.B] [PA.XI.A]
- ☐ Night go-around - Directed performance [PA.IV.N]
- ☐ Night emergency procedures discussion - Directed performance [PA.IX.C]
- ☐ Solo night takeoffs and landings (minimum 3) - Do [PA.IV.A] [PA.IV.B] [PA.XI.A]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight discussion: night flying debrief - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Flashlight (red lens) • Extra batteries • Cockpit lighting check

Lesson complete to standard: Student _____ CFI _____ Date _____

PHASE 3 · Lessons 17-29

SOLO FLIGHT AND CROSS-COUNTRY

Pre-solo review through first solo and the solo cross-countries.

LESSON 17 · PHASE 3 · DUAL

Pre-Solo Review and Confidence Building

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Student should have achieved reasonable proficiency in all flight maneuvers, make safe takeoffs and landings consistently without assistance, and recover from poor approaches. Go-around proficiency verified. Radar services practiced.

TASKS AND ELEMENTS

- ☐ Preflight discussion and solo review - Student directs [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ All maneuvers comprehensive review - Do [PA.IV.A] [PA.V.A]
- ☐ Radar services and departure - Do [PA.VIII.F]
- ☐ Go-arounds and approaches - Do [PA.IV.N]
- ☐ Readiness assessment - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 18 · PHASE 3 · DUAL+SOLO

First Solo

Estimated time: Ground 1 hr Dual 1 hr Solo 0.5 hr

OBJECTIVE

Student has demonstrated ability to solve all ordinary problems on local flight. Three solo landings recommended during first solo period. No further solo authorized until after rest and further dual review.

TASKS AND ELEMENTS

- ☐ Preflight discussion and solo review - Review procedures [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Dual: Takeoffs and landings - Do [PA.IV.A] [PA.IV.B]
- ☐ Dual: Go-around - Do [PA.IV.N]
- ☐ CFI endorsement - Verification [61.87(d)]
- ☐ Solo flight - Three landings [PA.IV.A] [PA.IV.B]
- ☐ Postflight celebration and debrief - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Aircraft Checklist • Sectional Chart • All Solo endorsements and logbook

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 19 · PHASE 3 · DUAL+SOLO

Dual/Solo Review: Critical Stalls, XC Prep

Estimated time: Ground 1 hr Dual 1 hr Solo 1 hr

OBJECTIVE

Student refines stall proficiency including power-on stalls and spin awareness. Introduction to cross-country planning concepts. Transition from pattern work to XC navigation mindset.

TASKS AND ELEMENTS

- ☐ Preflight discussion including XC planning intro - Do [PA.I.H] [PA.I.D] [PA.I.A] [PA.I.B]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and departure - Do [PA.IV.A]
- ☐ Ground reference maneuvers review - Do [PA.V.B]
- ☐ Slow flight to ACS standard - Practice [PA.VII.A]
- ☐ Power-off stalls to ACS standard - Practice [PA.VII.B]
- ☐ Power-on stalls - Directed performance and practice [PA.VII.C]
- ☐ Spin awareness discussion and demonstration - Directed performance [PA.VII.D]
- ☐ VOR tracking and cross-radial identification - Practice [PA.VI.B]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ Solo practice: stalls, steep turns, pattern work - Do
- ☐ Postflight discussion and XC planning homework - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Sectional Chart • Plotter

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 20 · PHASE 3 · SOLO

First Solo Without Prior Dual Checkout

Estimated time: Ground 1 hr Dual 0 hr Solo 1.5 hr

OBJECTIVE

Student plans and executes a solo flight without a preceding dual session. Demonstrates independent decision-making, preflight planning, and traffic pattern proficiency.

TASKS AND ELEMENTS

- ☐ Independent preflight planning - Do [PA.I.H] [PA.I.C] [PA.I.A] [PA.I.B]
- ☐ Weather evaluation and go/no-go decision - Do [PA.I.C]
- ☐ Preflight inspection (solo) - Do [PA.II.A]
- ☐ Engine start and taxi (solo) - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check (solo) - Do [PA.II.F]
- ☐ Radio communications (solo) - Do [PA.III.A]
- ☐ Normal takeoff and climb - Do [PA.IV.A] [PA.III.B]
- ☐ Traffic pattern operations - Do [PA.III.B]
- ☐ Normal approach and landing (crosswind practice) - Do [PA.IV.B]
- ☐ Forward slip to a landing - Do [PA.IV.M]
- ☐ Steep turns (solo practice) - Do [PA.V.A]
- ☐ VOR tracking practice - Do [PA.VI.B]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • Solo endorsement verified current

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 21 · PHASE 3 · DUAL+SOLO

Post-Solo Maneuver Review

Estimated time: Ground 1 hr Dual 0.5 hr Solo 1 hr

OBJECTIVE

Student reviews and refines maneuvers post-solo with brief dual check followed by solo practice. Focus on building independent proficiency in traffic pattern, steep turns, and ground reference maneuvers.

TASKS AND ELEMENTS

- ☐ Preflight discussion and solo planning - Do [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and departure - Do [PA.IV.A] [PA.III.B]
- ☐ Steep turns (dual review) - Practice [PA.V.A]
- ☐ Slow flight review (dual) - Practice [PA.VII.A]
- ☐ Power-off stalls review (dual) - Practice [PA.VII.B]
- ☐ Power-on stalls review (dual) - Practice [PA.VII.C]
- ☐ Spin awareness discussion (dual) - Practice [PA.VII.D]
- ☐ Ground reference maneuvers (dual review) - Practice [PA.V.B]
- ☐ Normal approach and landing - Practice [PA.IV.B]
- ☐ Solo practice: traffic pattern, steep turns, ground reference - Do [PA.IV.A] [PA.IV.B] [PA.V.A] [PA.V.B]
- ☐ Postflight discussion and solo debrief - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 22 · PHASE 3 · SOLO

Solo Practice: VOR, Landings, Steep Turns

Estimated time: Ground 0.5 hr Dual 0 hr Solo 1 hr

OBJECTIVE

Solo practice session focused on VOR tracking, landing proficiency, and steep turns. Building independent decision-making and airmanship.

TASKS AND ELEMENTS

- ☐ Independent preflight planning - Do [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Weather evaluation and go/no-go - Do [PA.I.C]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and departure - Do [PA.IV.A] [PA.III.B]
- ☐ VOR tracking practice - Do [PA.VI.B]
- ☐ Steep turns (left and right) - Do [PA.V.A]
- ☐ Forward slip to a landing practice - Do [PA.IV.M]
- ☐ Normal approach and landing (multiple) - Do [PA.IV.B]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief - Do

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 22A · PHASE 3 · DUAL

Instrument Navigation

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr**OBJECTIVE**

Develop attitude instrument flying and instrument navigation solely by reference to instruments, flying to an airport within 50 nm and back under the hood. Reinforces the 61.109(a)(3) instrument requirement and builds inadvertent-IMC and cross-country safety.

TASKS AND ELEMENTS

- ☐ Preflight briefing: instrument flight plan, hood procedures, inadvertent-IMC and lost-comms review - Ground [PA.I.H]
- ☐ Preflight inspection, engine start, taxi, pre-takeoff check - Do [PA.II.A] [PA.II.C] [PA.II.D] [PA.II.F]
- ☐ Departure and request flight following - Do [PA.III.A] [PA.VIII.F]
- ☐ Straight-and-level flight by reference to instruments - Practice [PA.VIII.A]
- ☐ Constant airspeed climbs and descents (hood) - Practice [PA.VIII.B] [PA.VIII.C]
- ☐ Turns to headings and compass turns (hood) - Directed performance [PA.VIII.D]
- ☐ Instrument navigation to airport within 50 nm: VOR/GPS intercept and course tracking (hood) - Directed performance [PA.VIII.F] [PA.VI.B]
- ☐ Recovery from unusual flight attitudes (hood) - Directed performance [PA.VIII.E]
- ☐ Radio navigation and radar services enroute - Do [PA.VIII.F]
- ☐ Hood off for approach and landing at destination - Do [PA.IV.B]
- ☐ Return leg and normal approach and landing - Do [PA.IV.B]
- ☐ Postflight debrief: instrument scan, navigation performance, inadvertent-IMC decision making - Student guided

ITEMS NEEDED

• View-limiting device (hood) • Preflight planning documents • Sectional chart and nav log • Frequency quick list • Aircraft checklist

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 23 · PHASE 3 · DUAL

Night Cross-Country (Dual)

Estimated time: Ground 1.5 hr Dual 3 hr Solo 0 hr

OBJECTIVE

Student plans and executes a night cross-country flight over 100nm. Satisfies 61.109(a)(2) night XC requirement. Builds on Lesson 20 night experience. Practices night navigation, flight following, and night operations at unfamiliar airports.

TASKS AND ELEMENTS

- ☐ Night XC flight planning (nav log, W&B, fuel with night reserves) - Do [PA.I.D] [PA.I.F]
- ☐ Weather briefing with attention to night-specific hazards - Do [PA.I.C]
- ☐ Night preflight inspection - Do [PA.II.A] [PA.XI.A] [PA.I.A] [PA.I.B]
- ☐ Engine start with cockpit lighting configured - Do [PA.II.C]
- ☐ Night taxi and runway identification - Do [PA.II.D] [PA.XI.A]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Request flight following - Do [PA.VIII.F]
- ☐ Night takeoff and climb - Practice [PA.IV.A] [PA.XI.A]
- ☐ Night pilotage and dead reckoning (lighted landmarks) - Directed performance [PA.VI.A] [PA.XI.A]
- ☐ VOR/GPS navigation at night - Practice [PA.VI.B]
- ☐ Radio communications with ATC at night - Do [PA.III.A]
- ☐ Night approach and landing at unfamiliar airport - Directed performance [PA.IV.B] [PA.XI.A]
- ☐ Night departure from unfamiliar airport - Practice [PA.IV.A]
- ☐ Return leg night navigation - Practice [PA.VI.A] [PA.VI.B]
- ☐ Night normal approach and landing - Practice [PA.IV.B] [PA.XI.A]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight discussion: night XC debrief

ITEMS NEEDED

• Completed nav log • Sectional Chart • Plotter • E6B/CX3 • Weather briefing • Flashlight (red lens) • Extra batteries • Airport Facility Directory

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 24 · PHASE 3 · SOLO

First Solo Cross-Country

Estimated time: Ground 1.5 hr Dual 0 hr Solo 2.5 hr**OBJECTIVE**

Student independently plans and executes first solo cross-country flight. Demonstrates proficiency in XC planning, pilotage, dead reckoning, navigation systems, communications, and unfamiliar airport operations. All 61.93(e) items must be endorsed prior to this flight.

TASKS AND ELEMENTS

- ☐ Independent cross-country flight planning (nav log, W&B, fuel) - Do [PA.I.D] [PA.I.F]
- ☐ Weather briefing and go/no-go decision - Do [PA.I.C]
- ☐ NOTAM and TFR check - Do [PA.I.E]
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Request flight following - Do [PA.VIII.F]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Pilotage and dead reckoning navigation - Do [PA.VI.A]
- ☐ VOR/GPS course tracking - Do [PA.VI.B]
- ☐ Radio communications enroute (frequency changes) - Do [PA.III.A]
- ☐ Unfamiliar airport entry and landing - Do [PA.IV.B]
- ☐ Departure from unfamiliar airport - Do [PA.IV.A]
- ☐ Return leg navigation - Do [PA.VI.A] [PA.VI.B]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief and nav log review

ITEMS NEEDED

• Completed nav log • Sectional Chart • Plotter • E6B/CX3 • Weather briefing printout • Airport Facility Directory • W&B worksheet • Solo XC endorsement verified • Flight plan (if filing)

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 25 · PHASE 3 · SOLO

Solo Cross-Country: 100nm+ Requirement

Estimated time: Ground 1.5 hr Dual 0 hr Solo 3 hr

OBJECTIVE

Student plans and executes the long solo cross-country meeting 61.109(a)(5) requirements: total distance over 150nm with full-stop landings at minimum 3 points and one segment of at least 50nm between takeoff and landing locations.

TASKS AND ELEMENTS

- ☐ Long XC flight planning (multi-leg nav log, W&B, fuel for all legs) - Do [PA.I.D] [PA.I.F]
- ☐ Weather briefing for entire route and alternates - Do [PA.I.C]
- ☐ NOTAM and TFR check for all airports - Do [PA.I.E]
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Request flight following - Do [PA.VIII.F]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Pilotage and dead reckoning (multi-leg) - Do [PA.VI.A]
- ☐ VOR/GPS navigation - Do [PA.VI.B]
- ☐ Radio communications (multiple frequencies) - Do [PA.III.A]
- ☐ Landing at intermediate airports (full stop) - Do [PA.IV.B]
- ☐ Departures from intermediate airports - Do [PA.IV.A]
- ☐ Fuel management across multiple legs - Do
- ☐ Return and normal approach/landing - Do [PA.IV.B]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief and nav log accuracy review

ITEMS NEEDED

- Multi-leg nav log • Sectional Chart • Plotter • E6B/CX3 • Weather briefing • Airport Facility Directory for all airports • W&B worksheet
- Solo XC endorsement verified

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 26 · PHASE 3 · DUAL

Checkride Maneuver Review (Dual)

Estimated time: Ground 1 hr Dual 1.5 hr Solo 0 hr

OBJECTIVE

Comprehensive dual review of all checkride maneuvers to ACS standard. Go-arounds from each landing type. Identifies areas needing further work before checkride preparation phase.

TASKS AND ELEMENTS

- ☐ Preflight discussion: ACS standards review - Do [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and climb - Do [PA.IV.A] [PA.III.B]
- ☐ Steep turns (left and right, 45-degree bank) - Practice [PA.V.A]
- ☐ Ground reference maneuvers (S-turns, turns around a point) - Practice [PA.V.B]
- ☐ Slow flight to ACS standard - Practice [PA.VII.A]
- ☐ Power-off stalls to ACS standard - Practice [PA.VII.B]
- ☐ Power-on stalls to ACS standard - Practice [PA.VII.C]
- ☐ Emergency descent - Practice [PA.IX.A]
- ☐ Emergency approach and landing (simulated) - Practice [PA.IX.B]
- ☐ Short-field takeoff and climb - Practice [PA.IV.E]
- ☐ Short-field approach and landing - Practice [PA.IV.F]
- ☐ Go-around from short-field approach - Practice [PA.IV.N]
- ☐ Soft-field takeoff and climb - Practice [PA.IV.C]
- ☐ Soft-field approach and landing - Practice [PA.IV.D]
- ☐ Go-around from soft-field approach - Practice [PA.IV.N]
- ☐ Forward slip to a landing - Practice [PA.IV.M]
- ☐ Normal approach and go-around - Practice [PA.IV.N]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ Instrument work review: unusual attitudes (hood) - Practice [PA.VIII.E]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight discussion: deficiency areas identified

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • View-limiting device (hood/foggles) • ACS standards reference

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 27 · PHASE 3 · SOLO

Solo Cross-Country: Multiple Airports

Estimated time: Ground 1.5 hr Dual 0 hr Solo 4 hr

OBJECTIVE

Extended solo cross-country with multiple airport stops. Builds XC confidence and independent decision-making. Practice different airport environments (towered, non-towered, different runway configurations).

TASKS AND ELEMENTS

- ☐ Multi-airport XC flight planning (nav log, W&B, fuel) - Do [PA.I.D] [PA.I.F]
- ☐ Weather briefing for entire route - Do [PA.I.C]
- ☐ NOTAM and TFR check - Do [PA.I.E]
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Request flight following - Do [PA.VIII.F]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Pilotage and dead reckoning - Do [PA.VI.A]
- ☐ VOR/GPS navigation - Do [PA.VI.B]
- ☐ Radio communications (towered and non-towered) - Do [PA.III.A]
- ☐ Landings at multiple airports (varied environments) - Do [PA.IV.B]
- ☐ Short-field operations at appropriate airports - Do [PA.IV.E] [PA.IV.F]
- ☐ Soft-field operations if appropriate - Do [PA.IV.C] [PA.IV.D]
- ☐ Forward slip practice - Do [PA.IV.M]
- ☐ Departures from multiple airports - Do [PA.IV.A]
- ☐ Return and normal approach/landing - Do [PA.IV.B]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief

ITEMS NEEDED

• Multi-leg nav log • Sectional Chart • Plotter • E6B/CX3 • Weather briefing • Airport Facility Directory • W&B worksheet

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 28 · PHASE 3 · SOLO

Solo Maneuver Practice: Airwork

Estimated time: Ground 0.5 hr Dual 0 hr Solo 1 hr

OBJECTIVE

Solo airwork practice focusing on steep turns, slow flight, and stalls to ACS standard. Building proficiency and confidence for checkride preparation.

TASKS AND ELEMENTS

- ☐ Independent preflight planning - Do [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Weather evaluation and go/no-go - Do [PA.I.C]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and departure - Do [PA.IV.A]
- ☐ Steep turns (left and right, 45-degree bank) - Do [PA.V.A]
- ☐ Slow flight (clean and landing configuration) - Do [PA.VII.A]
- ☐ Power-off stalls - Do [PA.VII.B]
- ☐ Power-on stalls - Do [PA.VII.C]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • ACS standards card (personal reference)

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 29 · PHASE 3 · SOLO

Solo Practice: Ground Ref, Short Field, Pattern

Estimated time: Ground 0.5 hr Dual 0 hr Solo 1 hr

OBJECTIVE

Solo practice focused on ground reference maneuvers, short-field operations, and traffic pattern proficiency. Final solo practice before entering checkride preparation phase.

TASKS AND ELEMENTS

- ☐ Independent preflight planning - Do [PA.I.H] [PA.I.A] [PA.I.B]
- ☐ Weather evaluation and go/no-go - Do [PA.I.C]
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Short-field takeoff and maximum performance climb - Do [PA.IV.E]
- ☐ Ground reference maneuvers (S-turns, turns around a point) - Do [PA.V.B]
- ☐ Traffic pattern operations - Do [PA.III.B]
- ☐ Short-field approach and landing - Do [PA.IV.F]
- ☐ Normal takeoff and pattern work - Do [PA.IV.A] [PA.IV.B]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list

Lesson complete to standard: Student _____ CFI _____ Date _____

PHASE 4 · Lessons 30-37

CHECKRIDE PREPARATION

ACS task review, simulated checkride, and the practical test.

LESSON 30 · PHASE 4 · DUAL

Checkride Prep: Ground Knowledge Week 1 (Tasks A, H) + Flight 1

Estimated time: Ground 2.5 hr Dual 2 hr Solo 0 hr

OBJECTIVE

Begin structured checkride preparation. Ground: Task A (Pilot Qualifications) covers Part 61 requirements, certificate privileges and limitations, currency requirements, and required documents. Task H (Human Factors) covers ADM, hazardous attitudes, risk management, CRM, PAVE/IMSAFE/5P checklists. Flight: All takeoff and landing types with go-arounds to ACS standard.

TASKS AND ELEMENTS

- ☐ Ground Training - Task A: Pilot Qualifications [PA.I.A]
- ☐ a. Part 61 certificate requirements and privileges
- ☐ b. Medical certificate requirements (BasicMed, 3rd class)
- ☐ c. Currency requirements (90-day, flight review, IPC)
- ☐ d. Required documents (pilot certificate, medical, photo ID)
- ☐ e. Logbook recordkeeping requirements
- ☐ Ground Training - Task H: Human Factors [PA.I.H] [PA.I.B]
- ☐ a. Aeronautical Decision Making (ADM) models
- ☐ b. Hazardous attitudes and antidotes
- ☐ c. Risk management (PAVE, IMSAFE, 5P)
- ☐ d. Crew Resource Management (single pilot)
- ☐ e. Fitness for flight (fatigue, stress, medication, alcohol)
- ☐ Preflight inspection - Do [PA.II.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Short-field takeoff and maximum performance climb - Practice [PA.IV.E]
- ☐ Soft-field takeoff and climb - Practice [PA.IV.C]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ Short-field approach and landing - Practice [PA.IV.F]
- ☐ Soft-field approach and landing - Practice [PA.IV.D]
- ☐ Go-around from normal approach - Practice [PA.IV.N]
- ☐ Go-around from short-field approach - Practice [PA.IV.N]
- ☐ Go-around from soft-field approach - Practice [PA.IV.N]
- ☐ Forward slip to a landing - Practice [PA.IV.M]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight debrief and homework assignment

ITEMS NEEDED

• Preflight planning documents • Airport Diagram • Frequency quick list • ACS standards reference • Task A Study Guide • Task H Study Guide • PHAK Chapters 2 and 17

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 31 · PHASE 4 · DUAL

Checkride Prep: Ground Knowledge Week 2 (Tasks B, G) + Flight 2

Estimated time: Ground 2.5 hr Dual 2 hr Solo 0 hr

OBJECTIVE

Ground: Task B (Airworthiness Requirements) covers aircraft documents, required inspections, MEL/KOEL, AD compliance, and inoperative equipment procedures (91.213). Task G (Operation of Systems) covers all aircraft systems, powerplant, and emergency equipment/survival gear. Flight: Steep turns, ground ref, slow flight, stalls, emergency descent, and systems malfunctions to ACS standard.

TASKS AND ELEMENTS

- ☐ Ground Training - Task B: Airworthiness Requirements [PA.I.B]
- ☐ a. Required aircraft documents (ARROW)
- ☐ b. Required inspections and maintenance (annual, 100-hr, ADs)
- ☐ c. Minimum Equipment List (MEL) and KOEL
- ☐ d. Inoperative equipment procedures (14 CFR 91.213)
- ☐ e. Preventive maintenance (Part 43 Appendix A)
- ☐ f. Aircraft logbook review exercise
- ☐ Ground Training - Task G: Operation of Systems [PA.I.G]
- ☐ a. Powerplant and propeller
- ☐ b. Electrical system
- ☐ c. Fuel system
- ☐ d. Hydraulic/brake system
- ☐ e. Vacuum/gyroscopic instruments
- ☐ f. Pitot-static system
- ☐ g. Environmental (heating/ventilation)
- ☐ h. Emergency equipment and survival gear [PA.IX.D]
- ☐ Preflight inspection with systems focus - Do [PA.II.A] [PA.I.A]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Steep turns (left and right, 45-degree bank to ACS) - Practice [PA.V.A]
- ☐ Ground reference maneuvers to ACS - Practice [PA.V.B]
- ☐ Slow flight to ACS standard - Practice [PA.VII.A]
- ☐ Power-off stalls to ACS - Practice [PA.VII.B]
- ☐ Power-on stalls to ACS - Practice [PA.VII.C]
- ☐ Emergency descent - Practice [PA.IX.A]
- ☐ Systems and equipment malfunctions - Practice [PA.IX.C]
- ☐ Emergency approach and landing (simulated) - Practice [PA.IX.B]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight debrief and homework assignment

ITEMS NEEDED

• ACS standards reference • Task B Study Guide • Task G Study Guide • Aircraft POH (systems section) • Aircraft logbooks • PHAK Chapters 6-9

Lesson complete to standard:

Student _____

CFI _____

Date _____

LESSON 32 · PHASE 4 · SOLO

Checkride Prep: Ground Knowledge Week 3 (Task C) + Solo Practice

Estimated time: Ground 2.5 hr Dual 0 hr Solo 1.5 hr

OBJECTIVE

Ground: Task C (Weather) covers weather theory (fronts, stability, fog, icing, thunderstorms) and weather services (METARs, TAFs, PIREPs, AIRMETs, SIGMETs, GFA, winds aloft). Solo flight focuses on maneuver deficiencies identified in Flights 1 and 2.

TASKS AND ELEMENTS

- ☐ Ground Training - Task C: Weather Theory [PA.I.C] [PA.I.A] [PA.I.B]
- ☐ a. Atmospheric composition and circulation
- ☐ b. Wind patterns and pressure systems
- ☐ c. Frontal systems and associated weather
- ☐ d. Stability, cloud formation, and precipitation
- ☐ e. Fog types and formation
- ☐ f. Icing hazards and avoidance
- ☐ g. Thunderstorm hazards and avoidance
- ☐ Ground Training - Task C: Weather Services [PA.I.C]
- ☐ a. METAR/SPECI decoding and interpretation
- ☐ b. TAF decoding and interpretation
- ☐ c. PIREPs (UA/UUA) and their value
- ☐ d. AIRMETs and SIGMETs
- ☐ e. Graphical Forecast for Aviation (GFA)
- ☐ f. Winds and temperatures aloft
- ☐ g. Convective outlook and radar interpretation
- ☐ h. Practical weather scenarios (3 go/no-go decisions)
- ☐ Solo practice on deficient maneuvers from Flights 1 and 2 - Do
- ☐ Steep turns (if deficient) - Do [PA.V.A]
- ☐ Slow flight and stalls (if deficient) - Do [PA.VII.A] [PA.VII.B] [PA.VII.C]
- ☐ Ground reference maneuvers (if deficient) - Do [PA.V.B]
- ☐ Short-field operations (if deficient) - Do [PA.IV.E] [PA.IV.F]
- ☐ Traffic pattern operations - Do [PA.III.B] [PA.IV.A] [PA.IV.B]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight self-debrief and homework

ITEMS NEEDED

• Task C Study Guide • PHAK Chapters 12-13 • Current METARs and TAFs for practice • Weather charts • ACS standards reference

Lesson complete to standard:

Student _____

CFI _____

Date _____

LESSON 33 · PHASE 4 · DUAL

Checkride Prep: Ground Knowledge Week 4 (Tasks D, E, F) + Flight Review

Estimated time: Ground 2.5 hr Dual 2 hr Solo 0 hr

OBJECTIVE

Ground: Task D (Cross-Country Flight Planning) covers E6B/CX3, nav log, flight plan, weight and balance, fuel planning. Task E (National Airspace System) covers all airspace classes, special use airspace, TFRs. Task F (Performance and Limitations) covers density altitude, performance charts, weight and balance. Flight: Review all deficiencies from Flights 1 and 2, practice all maneuvers.

TASKS AND ELEMENTS

- ☐ Ground Training - Task D: Cross-Country Flight Planning [PA.I.D]
 - ☐ a. E6B/CX3 flight computer operations
 - ☐ b. Navigation log preparation
 - ☐ c. VFR flight plan filing
 - ☐ d. Weight and balance computation
 - ☐ e. Fuel planning and management
 - ☐ f. Chart interpretation and route selection
- ☐ Ground Training - Task E: National Airspace System [PA.I.E]
 - ☐ a. Airspace classes (A, B, C, D, E, G) - requirements and dimensions
 - ☐ b. Special use airspace (prohibited, restricted, MOA, alert, warning)
 - ☐ c. Other airspace (TFRs, ADIZ, FRZ, wildlife refuges)
 - ☐ d. VFR cloud clearance and visibility requirements
 - ☐ e. Special VFR
- ☐ Ground Training - Task F: Performance and Limitations [PA.I.F]
 - ☐ a. Density altitude effects on performance
 - ☐ b. Takeoff and landing distance charts
 - ☐ c. Climb and cruise performance charts
 - ☐ d. Weight and balance limits and calculations
 - ☐ e. Effects of weight on performance
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications with flight following - Do [PA.III.A] [PA.VIII.F]
- ☐ Normal takeoff and climb - Do [PA.IV.A]
- ☐ Review deficient maneuvers from Flights 1 and 2 - Practice (as needed)
- ☐ Diversion practice - Practice [PA.VI.C]
- ☐ Lost procedures practice - Practice [PA.VI.D]
- ☐ Pilotage and dead reckoning - Practice [PA.VI.A]
- ☐ Navigation systems review - Practice [PA.VI.B]
- ☐ Instrument work (straight-and-level, climbs, descents, turns to headings) - Practice [PA.VIII.A] [PA.VIII.B] [PA.VIII.C] [PA.VIII.D]
- ☐ Recovery from unusual attitudes - Practice [PA.VIII.E]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Postflight debrief and homework

ITEMS NEEDED

• ACS standards reference • E6B or CX3 flight computer • Plotter • Sectional Chart • Task D/E/F Study Guides • PHAK Chapters 10-11 and 15-16 • View-limiting device

Lesson complete to standard:

Student _____

CFI _____

Date _____

LESSON 34 · PHASE 4 · GROUND

Simulated Checkride: Oral Exam

Estimated time: Ground 3 hr Dual 0 hr Solo 0 hr

OBJECTIVE

Full oral exam simulation covering all ACS knowledge areas. Scenario-based questioning using actual weather data and a planned cross-country. Student must demonstrate knowledge to ACS standard across all 8 knowledge tasks (A through H). Performance report identifies remaining deficiencies.

TASKS AND ELEMENTS

- ☐ Pre-exam setup: gather required documents (pilot certificate, medical, logbook, aircraft maintenance records, POH, current charts) - Do [PA.I.A] [PA.I.B]
- ☐ Oral Exam - Task A: Pilot Qualifications [PA.I.A]
- ☐ Oral Exam - Task B: Airworthiness Requirements [PA.I.B]
- ☐ Oral Exam - Task C: Weather Information (using actual weather) [PA.I.C]
- ☐ Oral Exam - Task D: Cross-Country Flight Planning (plan actual XC) [PA.I.D]
- ☐ Oral Exam - Task E: National Airspace System [PA.I.E]
- ☐ Oral Exam - Task F: Performance and Limitations [PA.I.F]
- ☐ Oral Exam - Task G: Operation of Systems [PA.I.G]
- ☐ Oral Exam - Task H: Human Factors [PA.I.H]
- ☐ Performance evaluation and deficiency debrief

ITEMS NEEDED

• Pilot certificate • Medical certificate • Photo ID • Aircraft logbooks • Aircraft POH • Current Sectional Chart • Current AF/D • E6B/CX3 • Plotter • Completed XC flight plan • Current weather data • ACS standards reference

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 35 · PHASE 4 · DUAL

Simulated Checkride: Flight Exam

Estimated time: Ground 0.5 hr Dual 2 hr Solo 0 hr**OBJECTIVE**

Full flight exam simulation with a different CFI acting as examiner whenever possible. All required maneuvers performed to ACS standard. Follows ACS checkride flow: preflight, departure, XC segment, diversion, maneuvers, instrument work, landings, emergency procedures.

TASKS AND ELEMENTS

- ☐ Pre-flight brief on checkride format and expectations - Do
- ☐ Preflight inspection (examiner evaluates) - Do [PA.II.A] [PA.II.B] [PA.I.A] [PA.I.B]
- ☐ Engine start and taxi (examiner evaluates) - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Normal takeoff and climb (XC departure) - Do [PA.IV.A] [PA.III.B]
- ☐ Cross-country navigation segment - Do [PA.VI.A] [PA.VI.B]
- ☐ Diversion - Do [PA.VI.C]
- ☐ Steep turns - Do [PA.V.A]
- ☐ Slow flight - Do [PA.VII.A]
- ☐ Power-off stalls - Do [PA.VII.B]
- ☐ Power-on stalls - Do [PA.VII.C]
- ☐ Spin awareness discussion - Do [PA.VII.D]
- ☐ Ground reference maneuvers - Do [PA.V.B]
- ☐ Instrument work under hood (straight-and-level, turns, climbs, descents, unusual attitudes) - Do [PA.VIII.A-E]
- ☐ Radio navigation - Do [PA.VIII.F]
- ☐ Emergency descent - Do [PA.IX.A]
- ☐ Emergency approach and landing (simulated) - Do [PA.IX.B]
- ☐ Systems malfunction - Do [PA.IX.C]
- ☐ Short-field takeoff and landing - Do [PA.IV.E] [PA.IV.F]
- ☐ Soft-field takeoff and landing - Do [PA.IV.C] [PA.IV.D]
- ☐ Forward slip to a landing - Do [PA.IV.M]
- ☐ Go-around/rejected landing - Do [PA.IV.N]
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ After landing, parking, and securing - Do [PA.XII.A]
- ☐ Detailed examiner performance report and deficiency debrief

ITEMS NEEDED

• All checkride-required documents • Completed XC flight plan • View-limiting device • ACS standards reference

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 36 · PHASE 4 · DUAL+SOLO

Deficiency Review and Final Polish

Estimated time: Ground 1 hr Dual 1 hr Solo 1 hr

OBJECTIVE

Address deficiencies identified in simulated checkride (oral and flight). Targeted dual practice on weak areas followed by solo practice for confidence building. CFI provides final sign-off (practical test endorsement) when student demonstrates consistent ACS-standard performance.

TASKS AND ELEMENTS

- ☐ Deficiency review discussion (oral exam weak areas) - Do [PA.I.A-H as needed]
- ☐ Preflight inspection - Do [PA.II.A] [PA.I.B]
- ☐ Engine start and taxi - Do [PA.II.C] [PA.II.D]
- ☐ Pre-takeoff check - Do [PA.II.F]
- ☐ Radio communications - Do [PA.III.A]
- ☐ Dual practice on flight deficiencies (targeted maneuvers) - Practice [as identified]
- ☐ Demonstrate proficiency on all previously deficient maneuvers - Do
- ☐ Solo practice for confidence building - Do
- ☐ Normal approach and landing - Do [PA.IV.B]
- ☐ After landing and securing - Do [PA.XII.A]
- ☐ Final proficiency assessment
- ☐ Practical test endorsement (when ready) [61.103(f)(2)] [61.107(b)(1)]

ITEMS NEEDED

- Simulated checkride performance reports • ACS standards reference • Endorsement page in logbook

Lesson complete to standard: Student _____ CFI _____ Date _____

LESSON 37 · PHASE 4 · CHECKRIDE

Checkride

Estimated time: Ground 0 hr Dual 0 hr Solo 0 hr

OBJECTIVE

Student takes the FAA Practical Test (checkride) with a Designated Pilot Examiner (DPE). This is the culmination of all training. Student demonstrates all knowledge and skill areas to ACS standard.

TASKS AND ELEMENTS

- ☐ Arrive with all required documents
- ☐ a. Pilot certificate (student)
- ☐ b. Medical certificate or BasicMed
- ☐ c. Photo identification
- ☐ d. Aircraft logbooks (current inspections)
- ☐ e. Aircraft POH
- ☐ f. Current Sectional Chart and AF/D
- ☐ g. Completed cross-country flight plan
- ☐ h. E6B/CX3 and plotter
- ☐ i. View-limiting device
- ☐ j. Knowledge test results (IACRA)
- ☐ k. Instructor endorsements (logbook)
- ☐ l. CFI certificate copy
- ☐ Oral Examination with DPE [PA.I.A through PA.I.H] [PA.I.B]
- ☐ Flight Examination with DPE [All ACS flight areas]
- ☐ Receive Temporary Airman Certificate upon successful completion

ITEMS NEEDED

- All items listed in Task 1 above • Payment for examiner fee • Calm confidence and good aeronautical decision-making

Lesson complete to standard: Student _____ CFI _____ Date _____