

Lesson	Subject	Dual	Solo	Ground
1.	Preflight, Taxi, Controls	1		1
2.	Maneuvers	1		
3.	Maneuvers	1		0.5
4.	Maneuvers	1.5		
5.	Maneuvers	1.5		
6.	Maneuvers	1.5		0.5
7.	Traffic Pattern	1		
8.	Traffic Pattern	1.5		
9.	Traffic Pattern	1.5		
10.	Local Airport TP	1.5		
11.	Traffic Pattern	1.5		
12.	Stage Check	2		1
13.	TP Solo	0.5	0.5	1
14.	TP Solo		1	0.5
15.	Maneuvers	1.5		
16.	Practice Area Solo		1.5	
17.	Practice Area Solo		1.5	
18.	Oral Nav Log			2
19.	XC Dual	2		
20.	XC Solo		2	0.5
21.	XC Dual	2		
22.	XC Solo		2	0.5
23.	Night XC Dual+Landings	2.5		
24.	Dual Local Airport	1.5		
25.	XC Solo		3	0.5
26.	Local Airport solo		1.5	0.5
27.	Maneuvers solo		1.5	
28.	Instrument	1.5		
29.	Instrument	1.5		
30.	Night Dual TP	2.5		
31.	Oral Drill			2
32.	Checkride Drill	1.5		
33.	Checkride Drill	1.5		
34.	Solo Checkride Drill		1.5	
35.	Oral Drill			2
36.	Checkride Drill	2		
	Checkride			
		37	16	12.5

Lesson 1

Introduction

Allotted Time: 2.0hr Block: 1.0 Ground + 1.0 Dual

Objective: Client is acquainted with preflight procedures, checklists, and aircraft controls.

References: *POH 4-11 (amplified checklist)*

Content

Preflight Briefing to discuss syllabus, studying & expectations

- Preflight inspection and aircraft documents:
 - certificates and documents, aircraft logbooks, airplane servicing
 - ADM!
 - Starting procedures
 - Taxi
 - Control effects on ground and in flight
 - Checklist introduction and use
 - Normal takeoff
 - Four Basics: straight and level, climbs, descents, turns
 - Collision avoidance procedures
 - Normal approach and landing
-

Completion standards

At the end of the lesson:

Client is familiar with preflight preparation, checklists, and basic flight controls.

Homework:

- Flight Controls {PHAK ch 6}
- Straight and Level, Climb, Descent, turns {AFH ch 3}
- Aviation Vocabulary {Pilot/Controller Glossary}
- Aeronautical Decision Making {ifr-magazine.com article}

Lesson 2

The Four Fundamentals

Allotted Time: 1 Hr Dual

Objective: Client has a baseline comfort in performing the four flight fundamentals.

References: *AFH ch 3*

Content

Preflight briefing: Review Preflight Elements

- Briefing, Walkaround, Go/ No-Go Decision
- ADM!
- Checklist use (INTRODUCE “floor to door”)
- Taxi
- Take-off
- Departure
- Climb
- Trim
- Straight-and-level
- Descents
- Turns
- Climbing turn
- Descending turn

Post-flight Debrief: Logbook entries

Completion standards

At the end of the lesson:

- Client is able to perform Preflight walk around and with minimal assistance from the instructor.
 - Client is able to maintain altitude, climb and descend at a given rate, and turn safely: $\pm 300\text{ft}$, $\pm 30\text{kts}$.
-

Homework:

- Slow Flight, Stalls {AFH ch 3}
- Principles of flight {PHAK ch 4}
- Aerodynamics of flight {PHAK ch 5}

Lesson 3

Slow Flight & Stalls

Allotted Time: 1.5 hr Block: 0.5 Ground + 1.0 Dual

- Objective:** Client is introduced to ground communication. Client is able to perform basic pre-maneuver procedures and follow checklists. Client understands and can demonstrate basic stall *recovery*. Client understands the different handling characteristics of slow flight and is able to perform with some instructor assistance

References: *AFH ch 3*

Content

Preflight Briefing: Introduction to stalls

- Preflight
- Checklist use - Floor to Door flow!
- Ground Communications Intro
- Taxi
- Departure
- Climb
- Trim
- Pre-maneuver area-clearing
- Slow flight
- Power off stall (FULL)
- Power on stall (FULL)
- Traffic pattern entry
- Shadow landing

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is now able to perform preflight walk around autonomously.
 - Client is able to taxi with minimal assistance from instructor.
 - Client is able to take off, climb and level off in practice area with some instructor guidance.
 - Client is able to maintain altitude whilst in slow flight $\pm 300\text{ft}$ $\pm 30\text{kts}$
-

Homework:

- Communication {PHAK 14-22}
- Review Slow Flight and stalls {PHAK 5-25}

Lesson 4

Communication

Allotted Time: 1.5 Hr Dual

- Objective:** Client is more proficient in practiced maneuvers and now possesses radio communication skills.

References: PHAK 14-22

Content

Pre-flight brief communication

- Ground Calls
- Position Reports
- Pre-maneuver area-clearing
- Slow Flight
- Power off stall (FULL)
- Power on stall (FULL)
- Other Maneuvers as needed
- Airport Radio calls
- Traffic pattern entry
- Reverse Shadowed Landing

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to communicate at a basic level on the radio with assistance of "Cheat-Sheet"
 - Client is able to perform takeoff, climb, and level off in practice area with some instructor guidance.
 - Client is familiar with stalls and slow flight, and can recover effectively.
 - Slow flight $\pm 250\text{ft} \pm 25\text{kts}$.
 - Client makes *their* first landing with assistance of instructor through shadowing.
-

Homework:

- Ground Reference Maneuvers {AFH ch7}
- Emergency checklists, amplified {POH ch3}

Lesson 5

Ground Reference Maneuvers

Allotted Time: 1.5 Hr Dual

- Objective:** Client understands concepts of wind correction and demonstrates general control finesse through ground reference maneuvers.

References: *AFH ch7*

Content

Preflight brief: wind correction

- Ground Calls
- Position Reports
- Pre-maneuver area-clearing
- Simulated engine failure
- Go-around
- Rectangular course
- S-Turns
- Turns-on-a-point
- Normal approach to land

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client demonstrates wind correction in all phases of flight and during ground reference maneuvers.
 - Client is able to communicate over the radio with some instructor assistance.
 - Client is able to perform ground reference maneuvers $\pm 200\text{ft}$ $\pm 20\text{kts}$
-

Homework:

- Steep Turns {AFH 10-1}
- What is Load Factor? {PHAK 5-33} {POH 2-6}
- How does Load Factor affect stall speed? {PHAK 5-34}

Lesson 6

Steep Turns and Emergencies

Allotted Time: 2.0 hr Block: 0.5 Ground + 1.5 Dual

- Objective:** Client is able to perform steep turns and select other maneuvers *safely*. Client is comfortable performing the four fundamentals. Client follows checklists and flows.

References: PHAK 5-33, AFH 10-1

Content

Preflight Brief: Radio Calls and Emergency Procedures

- Radio calls
- Clearing the area
- Steep turns
- Emergency procedures:
 - Engine fire
 - Forced landing
 - Electrical failure
 - Lost
- Selected ground-reference maneuvers
- Other maneuvers as needed*

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to make radio calls with some instructor guidance
 - Client follows appropriate checklists in simulated emergency scenarios
 - Reviewing previous ground-reference and other maneuvers, Client exhibits improved ability
 - Client maintains $\pm 200\text{ft} \pm 15\text{kts}$ in steep turns
-

Homework:

- Traffic Pattern Procedures {AFH ch8} {AFH ch9} {AIM 4-3}
- Radio Communications {PHAK 14-22}

**opportunity for early traffic pattern practice*

Lesson 7

First Traffic Pattern

Allotted Time: 1 Hr Dual

- Objective:** Client understands each leg of the traffic pattern, including checklist use and radio calls to be made while operating in a traffic pattern.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

Pre-flight brief: Intro to Traffic Pattern

- Radio calls
- Trim
- Airspeed management
- Traffic pattern dimensions
- Checklists - Floor to door
- Full-stop-taxi-back
- Stop-and-go

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client understands each leg of the traffic pattern, and can configure airplane appropriately
 - Client can maintain traffic pattern $\pm 200\text{ft} \pm 15\text{kts}$
-

Homework:

- Ground effect {PHAK 5-11}
- Airspace {AIM ch2}

Lesson 8

Traffic Pattern

Allotted Time: 1.5 Hr Dual

- Objective:** This is a duplicate of previous lesson to build experience in traffic pattern and improve skills.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

- Radio calls
- Closed traffic
- Checklists - Floor to door
- Visual references in traffic pattern
- Stop-and-goes

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client understands and responds to radio calls with minimal assistance from instructor
 - Client makes corrections to altitude & airspeed with little help from instructor
 - Client is able to land safely on the runway
-

Homework:

- Crosswind correction {AFH 9-15}
- Airspace {AIM ch3}

Lesson 9

Traffic Pattern

Allotted Time: 1.5 Hr Dual

- Objective:** This is a duplicate of previous lesson to build experience in traffic pattern and improve skills.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

- Radio calls
- Closed traffic
- Checklists - Floor to door
- Visual references in traffic pattern
- Normal touch-and-go

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client understands and responds to radio calls with minimal assistance from instructor
 - Client makes corrections to altitude & airspeed with little help from instructor
 - Client is able to land safely close to the runway centerline
-

Homework:

- Wingtip Vortices {PHAK 5-8}
- Wake Turbulence{PHAK 5-9} {PHAK 5-10}

Lesson 10

Local Airport Traffic Pattern

Allotted Time: 1.5 Hr Dual

- Objective:** Client understands traffic pattern entry and exit procedures, including appropriate radio calls. Client gains diverse experience landing at a new airport.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

Preflight brief: Airspace requirements

- Departure from home traffic pattern
- Traffic avoidance
- Entry to foreign traffic pattern
- Touch-and-goes
- Checklists while enroute, approach, departure..
- Departure from foreign traffic pattern
- Home traffic pattern entry
- Normal* landing

Post-flight Debrief: IACRA & Student Pilot certificate

Completion standards

At the end of the lesson:

- Client completes appropriate checklists with rare reminders from instructor
 - Client is able to land safely on the runway centerline
 - Client makes radio calls with rare instructor assistance
-

Homework:

- Solo requirements {FAR 61.87}
- Student pilot limitations {FAR 61.89}

**opportunity for soft/short field introduction*

Lesson 11

Traffic Pattern

Allotted Time: 1.5 Hr Dual

- Objective:** Client has a firm grasp on the traffic pattern, keenly follows checklists, makes confident radio calls. At this point, Client consistently makes safe landings.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

Pre-flight brief: Solo Requirements

- Radio calls
- Closed traffic
- Checklists - Floor to door
- Visual references in traffic pattern
- Normal touch-and-go
- Go arounds
- Simulated engine failure (Power off landing)
- Simulated flap failure (No flap landing)

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client taxi's proficiently
 - Client follows checklists without being prompted by instructor
 - Client makes radio calls without instructor assistance
 - $\pm 150\text{ft} \pm 10\text{kts}$ (greater than -5kts final)
-

Homework:

- PRE SOLO WRITTEN EXAM
- Solo requirements {FAR 61.87}
- Student pilot limitations {FAR 61.89}
- Airspace {AIM ch3}

Lesson 12

Pre-Solo Stage Check

Allotted Time: 3 hr Block: 1.0 Ground + 2.0 Dual

- Objective:** This progress --or “stage”-- examination will verify that the client can consistently perform safe operation within the traffic pattern and exhibit satisfactory knowledge. This *flight* will be performed with a different CFI from the primary instructor.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

ORAL: review pre-solo written exam

- Radio Calls
- Departure
- Clearing the area
- Slow flight
- Power off stall (full)
- Power on stall (full)
- Traffic pattern
- Normal landing
- Go around
- Full-stop-taxi-back
- Stop-and-go
- Power off landing

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client will perform all elements autonomously and safely.
 - TPA $\pm 150\text{ft}$ $\pm 10\text{kts}$ (greater than -5kts final)
-

Homework:

- Review Pre-solo exam
- Emergency Procedures {POH ch3}
- Write personal minimums down

Lesson 13

First Solo

Allotted Time: 2 hr Block: 1.0 Ground + 0.5 Dual + 0.5 Solo

- Objective:** Client flies as sole occupant safely, builds confidence and exhibits their PIC mentality in the traffic pattern.

References: {AFH ch8} {AFH ch9} {AIM 4-3}

Content

Pre-flight brief: Go/no-go, Solo requirements & Limits, Traffic pattern

Throughout the lesson, client operates autonomously

- 3 Stop-and-goes with instructor
- Taxi to ramp, instructor exits airplane.
- 3 Stop-and-goes solo

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client proficiently performs pre-flight planning and walkaround
 - Client successfully navigates taxiways solo
 - Client successfully communicates on the radio (including "student pilot" on initial contact)
 - Client Lands safely in all three full-stop-taxi-backs
 - Client proficiently follows post-flight procedures
-

Homework:

- Review today's performance and prepare for second solo
- Review Aeronautical Decision Making "ADM" {ifr-magazine.com article}

Lesson 14

Second Solo

Allotted Time: 1.5 hr Block: 0.5 Ground + 1.0 solo

- Objective:** Client builds experience and confidence and PIC mentality while solo in the traffic pattern.

References: {PHAK ch2}

Content

Pre-flight brief: Weather Briefing & ADM

- Closed Traffic pattern
 - Full-stop-taxi back*
 - Stop-and-go*
 - touch-and-go*
 - Full stop
-

Completion standards

At the end of the lesson:

- Client proficiently performs pre-flight planning and walkaround
 - Client successfully navigates taxiways solo
 - Client successfully communicates on the radio (including "student pilot" on initial contact)
 - Client Practices Landings safely
 - Client proficiently follows post-flight procedures
 - Client exhibits good PIC mentality and Aeronautical Decision Making.
-

Homework:

- Airspace {AIM ch3}
- Minimum altitudes {FAR 91.119}
- Right-of-way rules {FAR 91.113}
- Weather requirements {FAR 91.155}

**Quantity depending on time available and client preference*

Lesson 15

Pre-Solo Maneuver Review

Allotted Time: 1.5 Hr Dual

- Objective:** This lesson is meant to refresh clients' knowledge of maneuvers, so that they can go out solo and practice maneuvers. This lesson will also solidify clients emergency procedure flows, preparing them for solo outside of the traffic pattern.

References: {POH ch2 and 3} {AFH Ch7}

Content

Pre-flight brief: Client now gives go/no-go. PIC mentality, ADM, Emergencies

- Position Reports
- Pre-maneuver area-clearing
- Simulated Emergency Descent
- Simulated Emergency off-airport-landing
- S-Turns
- Turns-on-a-point
- Slow Flight
- Power off stall (both full and first indication)
- Power on stall (both full and first indication)
- Simulated electrical failure
- Steep turn
- Normal approach to land

Post-flight Debrief: discuss maneuvers to practice solo & coordination in stalls

Completion standards

At the end of the lesson:

- Client is able to fly and make radio calls with *very rare* instructor assistance
 - Client is able to perform maneuvers *safely*.
 - Client follows relevant checklists and flows proficiently.
 - Client responds to simulated emergencies correctly.
-

Homework:

- Airspace {AIM ch3}
- Minimum altitudes {FAR 91.119}
- Right-of-way rules {FAR 91.113}
- Weather requirements {FAR 91.155}

Lesson 16

Practice Area Solo

Allotted Time: 1.5 Hr Solo

- Objective:** Client builds experience and confidence with maneuvers in the practice area.

References: {AIM ch3} {FAR 91.119} {FAR 91.113}

Content

Pre-flight brief: Intro to Traffic Pattern

- Maneuvers as discussed with instructor *
 - Stalls are to be practiced to first indication
-

Completion standards

At the end of the lesson:

- Client Practices Maneuvers safely
 - Client reflects on performance, takes notes of areas of improvement
-

Homework:

- Cross-country Planning & Navigation {PHAK 16}
- ATC services {AIM ch4 (excluding IFR)}
- Weather Theory {PHAK ch12}

**opportunity traffic pattern practice*

Lesson 17

Practice Area Solo

Allotted Time: 1.5 Hr Solo

- Objective:** This is a duplicate of the previous lesson: Client builds experience and confidence with maneuvers in the practice area.

References: {PHAK 16} {AIM ch4 (excluding IFR)} {PHAK ch12}

Content

Pre-flight brief: Intro to Traffic Pattern

- Maneuvers as discussed with instructor *
 - Stalls are to be practiced to first indication
-

Completion standards

At the end of the lesson:

- Client Practices Maneuvers safely
 - Client reflects on performance, takes notes of areas of improvement
-

Homework:

- Airplane Performance {POH ch5}
- What is the difference between flight plan and flight following?

**opportunity traffic pattern practice*

Lesson 18

Nav. Log Oral

Allotted Time: 2 Hr Ground

- Objective:** The Client understands cross country planning, calculation, and techniques for navigating along planned routes.

References: *XC Nav-log guide, Sectional chart*

Materials: XC Nav-log, E6-B calculator, sectional chart, POH

Content

- Pilotage and Dead Reckoning
 - Why do manually each time?
 - Route selection
 - SUA and Risk mitigation
 - Altitude selection
 - Lead into performance!
 - Performance Selection
 - Running the NavLog Numbers
 - Review Flight Plan vs. Flight Following
 - In-Flight: Planned vs. Actual calculations & Diversions
 - Weather briefing review
-

Instructor Actions

- Explain and relate content to client
 - Ask questions throughout lesson to engage client
 - Demonstrate and ask client to practice calculating various legs of a trip
 - Practice retrieving an actual weather briefing
-

Client Actions

- Attempt calculating Nav log with instructor assistance
 - Apply ADM to make a go-no-go decision based of a weather briefing
-

Completion standards

- Client is able to complete nav log. Client has working understanding of pilotage and dead reckoning (to be applied in flight). Client incorporates risk management *into* flight planning.
-

Homework:

- Calculate new Nav log as specified by instructor

Lesson 19

Dual Cross Country

Allotted Time: 2 Hr Dual

- Objective:** Client gains experience using a nav log to fly to a new airport (+50NM). Client becomes familiar with in-flight procedures and checklists during a cross country flight.

References: {XC Nav Log}

Content

Pre-flight brief: Check navlog, check weather briefing

- File VFR flight plan
- VFR flight following pickup
- Dead-reckoning
 - Time, Speed, Fuel
- Pilotage
 - Visual References
- Communication with Center
- Discuss emergency procedures
- Discuss lost procedures
- Descent planning
- Finding destination Airport
- Traffic pattern entry
- Stop-and-go
- CLOSE FLIGHT PLAN!

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to navigate and compare actual to planned performance
 - Client maintains situational awareness throughout the flight
 - Client makes prompt altitude and heading corrections.
 - Altitude and Heading $\pm 200\text{ft} \pm 25^\circ$
-

Homework:

- Nav Log for Next lesson
- Aero-Medical Factors {PHAK ch17}
- Medical Facts for Pilots {AIM ch8}

Lesson 20

Solo Cross Country

Allotted Time: 2.5 hr Block: 0.5 Ground + 2.0 Solo

- Objective:** The Client gains solo cross country experience in a familiar environment by flying to the same airport as the previous lesson. Client is comfortable with Navlog usage in-flight.

References: {XC Nav Log} {PHAK ch17} {AIM ch8}

Content

Pre-flight brief: Check navlog, check weather briefing

- VFR flight following pickup
 - Dead-reckoning
 - Time, Speed, Fuel
 - Pilotage
 - Visual References
 - Communication with Center
 - Descent planning
 - Finding destination Airport
 - Traffic pattern entry
 - Full-stop taxi-back
-

Completion standards

At the end of the lesson:

- Clients' Nav log contains no errors
 - Client is able to explain their weather briefing
 - Client makes sound go/no-go decisions.
-

Homework:

- Emergency Procedures {AIM ch6}
- Nav Log for Next lesson

Lesson 21

Dual Cross Country*

Allotted Time: 2 Hr Dual

- Objective:** This is a duplicate of the prior dual XC lesson: Client gains experience using a nav log to fly to a new airport (+50NM). Client becomes familiar with in-flight procedures and checklists during a cross country flight.

References: {AIM ch6} {XC Nav Log}

Content

Pre-flight brief: Check navlog, check weather briefing

- VFR flight following pickup
- Dead-reckoning
 - Time, Speed, Fuel
- Pilotage
 - Visual References
- Communication with Center
- Discuss Diversion procedure
- Descent planning
- Finding destination Airport
- Traffic pattern entry
- touch-and-go

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to navigate and compare actual to planned performance
 - Client maintains situational awareness throughout the flight
 - Client makes prompt altitude and heading corrections.
 - Altitude and Heading $\pm 150\text{ft} \pm 15^\circ$
-

Homework:

- Safety-of-flight and risks {AIM ch7}
- Nav Log for Next lesson

**Option to be at night. If so, destination shall be a towered airport*

Lesson 22

Solo Cross Country

Allotted Time: 2.5 hr Block: 0.5 Ground + 2.0 Solo

- Objective:** This is a duplicate of the prior solo XC lesson: The Client gains solo cross country experience in a familiar environment by flying to an airport agreed upon between Client and Instructor. Client has mastered *calculating* Nav logs.

References: AIM ch7} {XC Nav Log}

Content

Pre-flight brief: Check navlog, check weather briefing

- VFR flight following pickup
- Dead-reckoning
 - Time, Speed, Fuel
- Pilotage
 - Visual References
- Communication with Center
- Descent planning
- Finding destination Airport
- Traffic pattern entry
- Full-stop taxi-back

Post-flight Debrief

Completion standards

At the end of the lesson:

- Clients' Nav log is flawless
 - Client is able to explain their weather briefing
 - Client makes sound go/no-go decisions.
-

Homework:

- Night Illusions {PHAK 17-26} & {PHAK 17-27}
- Nav Log for Next lesson

Lesson 23

Dual Night Cross Country

Allotted Time: 2.5 hr Dual

- Objective:** Client understands risks associated with night flight and gains experience applying risk mitigation. Client becomes acquainted with the difference between night and day flight. Airport selection must be to an airport at *least* 100NM straight-line distance.

References: HEADLAMP! {PHAK 17-26} {PHAK 17-27} {XC Nav Log}

Content

Pre-flight brief: Check navlog, check weather briefing, *visual references*

- VFR flight following pickup
- Dead-reckoning
 - Time, Speed, Fuel
- Pilotage
 - Visual References
- Communication with Center
- Visual Illusions
- Terrain Clearance
- Aircraft, airport, and obstruction lighting
- Descent planning
- identifying destination Airport
- Traffic pattern entry
- Stop-and-go (x5)

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client can maintain situational and spatial awareness throughout flight at night
 - Client Identifies destination airport and distinguishes runway and taxiway markings
 - Client Performs safe landings on centerline
 - Client maintains course $\pm 100\text{ft}$ $\pm 10\text{kts}$
-

Homework:

- How do you read the Chart Supplement?
- Review Emergency Procedures {POH ch3} {AIM 6}
- Pilot and Controller Roles and Responsibilities {AIM 5-5}

Lesson 24

Dual Local Airport

Allotted Time: 1.5 Hr Dual

- Objective:** Client understands and can apply diversion procedures. Client exercises ADM and in-flight planning ability.

References: {AFD} {VFR Sectional} {Airport Diagram}

Content

- Departure
- Follow Nav-log
- Simulated In-Flight Urgency requiring diversion
 - Navigate to alternate
 - Calculate feasibility of alternate
- Traffic Pattern entry and radio calls
- Simulated engine failure in the pattern
- Touch-and-go(s)

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client uses appropriate methods of determining diversion airport
 - Client makes correct navigation and performance calculations for diversion
 - Client makes excellent traffic pattern entry
 - Client maintains Altitude and Heading $\pm 100\text{ft} \pm 10^\circ$
-

Homework:

- Nav Log for Next lesson
- Review Lost Procedures

Lesson 25

150 NM Solo Cross Country

Allotted Time: 3.5 hr Block: 0.5 Ground + 3.0 Solo

- Objective:** Similar to previous solo cross country lessons: Client gains experience flying a long cross country to 3 different airports, each at *least* 50NM between each other.

References: {XC Nav Log} {AFD} {Airport Diagrams}

Content

Pre-flight brief: Check navlog, check weather briefing

- VFR flight following pickup
 - Dead-reckoning
 - Time, Speed, Fuel
 - Pilotage
 - Visual References
 - Communication with Center
 - Descent planning
 - Finding destination Airport
 - Traffic pattern entry
 - Full-stop taxi-backs at each destination
-

Completion standards

At the end of the lesson:

- Clients' Nav log is flawless
 - Client demonstrates mastery of weather briefing and go/no-go decision
 - Client performs post-flight reflection on performance
-

Homework:

- Flight Hazards {AIM 7-6}

Lesson 26

Solo Local Airport

Allotted Time: 1.5 Hr Solo

- Objective:** This is a duplicate of previous dual local; now it is solo. Client *perfects* towered and non-towered traffic pattern procedures by performing touch-and-goes at agreed-upon airport.

References: {AFD} {VFR Sectional} {Airport Diagram}

Content

- Traffic pattern procedures
 - Practice landings
 - Other maneuvers as needed*
-

Completion standards

At the end of the lesson:

- Client maintains situational awareness
 - Client has mastered the traffic pattern
 - Client performs post-flight reflection on performance
-

Homework:

- Private Pilot ACS
- ASA Private Pilot Oral Guide

**Opportunity for client to practice other areas of improvement, discuss with instructor*

Lesson 27

Solo Practice Area

Allotted Time: 1.5 Hr Solo

- Objective:** Client gains experience and confidence performing maneuvers in the practice area.

References: {Private Pilot ACS}

Content

- Maneuvers
 - Slow flight
 - Stall: Power off
 - Stall: Power on
 - Steep turn
 - Turns-on-a-point
 - S-turns
 - Other Maneuvers as needed*
-

Completion standards

At the end of the lesson:

- Client holds altitude and performs maneuvers with little-to-no flaw
 - Client performs post-flight reflection on performance
-

Homework:

- Instrument scan {Instrument Flying Handbook ch6 section 1}
- Emergency IMC Entry Procedure {POH ch3} {PHAK ch18-17}
- VOR navigation {PHAK ch16-22}

**Opportunity for traffic pattern practice at home or previously lessons' local airport*

Lesson 28

Instrument

Allotted Time: 1.5 Hr Dual

- Objective:** Client gets introduced to VOR Navigation and comfortable with essential instrument flying skills.

References: {Instrument Flying Handbook ch6 section 1} {PHAK ch16-22} {PHAK ch18-17}

Content

Pre-flight brief: Instrument scanning and Intro to VOR navigation

- Straight-and-level
- Constant-airspeed climbs
- Constant-airspeed descents
- Turns to headings
- VOR Tuning & Tracking

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to perform with some instructor guidance
 - Client is able to maintain situational awareness
 - Client is able to maintain altitude and airspeed within safe margins
-

Homework:

- Instrument scan {Instrument Flying Handbook ch6 section 1}
- Emergency IMC Entry Procedure {POH ch3} {PHAK ch18-17}
- VOR navigation {PHAK ch16-22}

Lesson 29

Instrument

Allotted Time: 1.5 Hr Dual

- Objective:** Similarly to previous lesson; Client Familiarization with VOR Navigation. Client now also understands appropriate radio calls and unusual attitude recovery.

References: {Instrument Flying Handbook ch6 section 1} {PHAK ch16-22} {PHAK ch18-17}

Content

Pre-flight brief: Review VOR navigation, introduce unusual attitude recovery

- Straight, descents climbs, turns
- VOR Tuning & Tracking
- Radio Communications
- Unusual attitude recovery

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to perform with rare instructor guidance
 - Client is able to recover safely from unusual attitudes
 - Client makes radio calls without instructor guidance
 - Client is able to maintain altitude and airspeed
-

Homework:

- Private pilot aeronautical experience requirements {FAR 61 subpart E}
- Instrument scan {Instrument Flying Handbook ch6 section 1}
- Emergency IMC Entry Procedure {POH ch3} {PHAK ch18-17}
- VOR navigation {PHAK ch16-22}

Lesson 30

Dual Night Traffic Pattern

Allotted Time: 2.5 Hr Dual

- Objective:** Client mastery of traffic patterns. Client experience built in night traffic pattern operation.

References: {AFD} {VFR Sectional} {Airport Diagram}

Content

Pre-flight brief: Review illusions

- Airport lighting
- Traffic pattern
- Radio calls
- Normal landing
- Short field landing
- Stop-and-goes
- Full stop*

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client is able to perform without instructor guidance
 - Client corrects for visual illusions at night
 - Client constantly makes safe landings
-

Homework:

- {ASA Private Pilot Oral Study Guide}
- Additional Paper Nav-Log for simulated cross-country flight
- De-code knowledge test incorrect area codes (Write on separate paper)

**Opportunity to practice simulated engine failure in the traffic pattern (power off 180).*

Lesson 31

Oral Checkride Drill

Allotted Time: 2 Hr Ground

- Objective:** The Client puts their knowledge to the test and gains confidence to demonstrate knowledge in a practice testing environment.

References: {ASA Private Pilot Oral Study Guide}, {Private Pilot ACS}

Materials: XC Nav-log, E6-B calculator, sectional chart, POH

Content

- Discuss and correct incorrect areas from written test
 - Private Pilot ACS area-of-operation I Tasks:
 - A. Pilot Qualifications
 - B. Airworthiness Requirements
 - C. Weather Information
 - D. Cross-Country Flight Planning
 - E. National Airspace System
 - F. Performance and Limitations
 - G. Operation of Systems
 - H. Human Factors
-

Instructor Actions

- Evaluate Client's knowledge in relevant areas from ACS
 - Discuss Nav-log composition
 - Answer questions from Client
 - Through discussion, correct incorrect answers
 - Endorse client with knowledge test discussion endorsement
-

Client Actions

- Answer questions from instructor
 - Ask questions to seek deeper understanding in weak areas
 - Take note of weak areas
-

Completion standards

- Client has identified knowledge areas where improvement is needed
-

Homework:

- Review all weak areas thoroughly as discussed with instructor
- Study in reference to the private pilot ACS

Lesson 32

Dual Checkride Drill

Allotted Time: 1.5 Hr Dual

Objective: satisfactory performance of maneuvers from ACS throughout entire flight.

References: {AFH} {Private Pilot ACS}

Content

Pre-flight brief: Review diversion and maneuvers to be done

- Take-offs: Normal, Short, Soft
- Navigation along nav log
- Diversion procedure
- Landings: Normal, Short, Soft, Power off, Flapless/forwardslip
- Go around
- Steep turns
- Slow flight
- Stalls: Power off, Power on, level and turning
- Engine failure to a forced landing
- Turns on a point
- S-turns
- Instrument Fundamentals

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client performs maneuvers with rare instructor guidance while “talking through it”
 - Client maintains altitude and airspeed $\pm 100\text{ft} \pm 10\text{kts}$ for *Most* of the flight
-

Homework:

- {ASA Private Pilot Oral Study Guide}

Lesson 33

Dual Checkride Drill

Allotted Time: 1.5 Hr Dual

- Objective:** Duplicate of previous lesson, with higher standards: Satisfactory performance of maneuvers from ACS throughout entire flight.

References: {AFH} {Private Pilot ACS}

Content

- Take-offs: Normal, Short, Soft
- Navigation along nav log
- Diversion procedure
- Landings: Normal, Short, Soft, Power off, Flapless/forwardslip
- Go around
- Steep turns
- Slow flight
- Stalls: Power off, Power on, level and turning
- Engine failure to a forced landing
- Turns on a point
- S-turns
- Instrument Fundamentals*

Post-flight Debrief

Completion standards

At the end of the lesson:

- Client performs maneuvers with sparse instructor guidance while “talking through it”
 - Client maintains altitude and airspeed $\pm 100\text{Xft} \pm 10\text{kts}$ *throughout* the lesson
-

Homework:

- {ASA Private Pilot Oral Study Guide}

**At completion of this lesson, Client must have required instrument time (3hrs). Otherwise; Plan must be made to obtain remaining instrument time in final checkride drill lesson #36*

Lesson 34

Solo Checkride Drill

Allotted Time: 1.5 Hr Solo

- Objective:** Client perfects maneuvers and builds experience executing without Instructor presence.

References: {AFH} {Private Pilot ACS}

Content

- Maneuvers to suit Clients' needs*
 - Take-offs: Normal, Short, Soft
 - Navigation along nav log
 - Diversion procedure
 - Landings: Normal, Short, Soft, Power off, Flapless/forwardslip
 - Go around
 - Steep turns
 - Slow flight
 - Stalls: Power off, Power on
 - Engine failure to a forced landing
 - Turns on a point
 - S-turns
-

Completion standards

At the end of the lesson:

- Client has mastered maneuvers and procedures
 - Client reviews performance and notes areas for final review with instructor in future lesson
-

Homework:

- {ASA Private Pilot Oral Study Guide}
- Another Nav-log for a simulated cross country

**Maneuvers are discretionary to the client.*

Lesson 35

Oral Checkride Drill

Allotted Time: 2 Hr Dual

- Objective:** Client mastery of knowledge areas and confidence in a testing environment. This lesson will simulate the checkride.

References: {ASA Private Pilot Oral Study Guide} {Private Pilot ACS}

Materials: XC Nav-log, E6-B calculator, sectional chart, POH

Content

- Discuss and correct incorrect areas from written test
 - Private Pilot ACS area-of-operation I Tasks:
 - A. Pilot Qualifications
 - B. Airworthiness Requirements
 - C. Weather Information
 - D. Cross-Country Flight Planning
 - E. National Airspace System
 - F. Performance and Limitations
 - G. Operation of Systems
 - H. Human Factors
 - Verify all paperwork and requirements
-

Instructor Actions

- Evaluate Client's knowledge in relevant areas from ACS
 - Discuss Nav-log composition
 - Answer questions from Client
 - Through discussion, correct incorrect answers
 - Endorse client with knowledge test discussion endorsement
-

Client Actions

- Answer questions from instructor
 - Ask questions to seek deeper understanding on any weak area(s)
 - Take note of weak area(s)
-

Completion standards

- Client has strong understanding of all private pilot knowledge areas
-

Homework:

- Review any weak area identified

Lesson 36

Final Checkride Drill

Allotted Time: 1.5 Hr Dual

- Objective:** Client mastery of skill areas and confidence in a testing environment. This lesson will simulate the checkride.

References: {AFH} {Private Pilot ACS}

Content

Pre-flight brief: Intro to Traffic Pattern

- Soft-field takeoff
- Navigation along nav log
- Diversion procedure
- Short-field landing & takeoff
- Steep turns
- Slow flight
- Stalls: Power off, Power on
- Engine failure to a forced landing
- Turns on a point
- S-turns
- Soft-field landing
- Go-around
- Flapless forward slip landing
- Power-off-180

Post-flight Debrief: Submit IACRA application

Completion standards

Throughout the lesson:

- Exhibits risk mitigation techniques throughout the flight.
 - Client remains within Private Pilot ACS:
 - Level altitude maintained ± 100 ft
 - Heading $\pm 10^\circ$
 - Climb airspeeds +10, -5kts
 - Slow flight airspeed +10 -0 kts
 - Turning bank $\pm 5^\circ$
-