LESSON PLANS

PRIVATE PILOT

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STAGE 1

HIGH ALTITUDE MANEUVERS

GND: 2.0 **LESSON 1** FLT: 1.0

GND: Airplane Model/Engine, IMSAFE, ARROW, W&B, Checklists, KSAV Airspace/Radios, US Citizenship, Single-pilot taxi ops (91-73B)

FLIGHT LESSON SBT: Patrol Over Hazardous Area

Objectives	**Aircraft & Area Familiarization**
Destination	Practice Area
Navigation	Pilotage
Deviations	None
Malfunctions	None
Pressures	None
Hazards	First Flight New Student New Aircraft Traffic Distractions
Maneuvers	1. Preflight Inspection 2. Taxiing 3. Checklist Execution 4. Normal Takeoff 5. Scanning for Traffic 6. Four Forces of Flight 7. Medium Bank Turns 8. Turns without avionics 9. Use of Flaps 10. Normal Approach/Landing 11. Postflight Inspection

References: AC 91-73B

GND: 2.0 **LESSON 2** FLT: 1.0/.3 IFT

GND: Engine cycle, Power Required Curve (steep=power), Landing Phase, Use of flaps, CFIT (AC 61-134), Slow Flight, Power Off Stalls

FLIGHT LESSON SBT: Low Speed Photography Patrol

Objectives	**Slow Flight Characteristics**
Destination	Practice Area
Navigation	Pilotage / Simulated IFR with Vectors
Deviations	None
Malfunctions	None
Pressures	None
Hazards	Low Airspeed Maneuvering New Student Distractions Traffic
Maneuvers	1. Preflight Inspection 2. Normal takeoff 3. Trimming 4. Pre-maneuver checklist 5. Maneuver checklist 6. Slow Flight 7. Power Off Stalls 8. Normal Approach/Landing

References: Maneuver checklist, aircraft checklist

GND: 1.5 **LESSON 3** FLT: 1.0

GND: Stability/Control/Maneuverability, Spins (PEAR), Steep Turns, Unusual Attitudes, Power-on stalls

FLIGHT LESSON SBT: Search & Rescue over an area with circles

Objectives	**Stalls & Steep Turns**
Destination	Practice Area
Navigation	Pilotage
Deviations	None
Malfunctions	Engine Failure in-flight
Pressures	None
Hazards	Low Airspeed Maneuvering High Banks Stalls Traffic
Maneuvers	1. Pre-maneuver checklist 2. Maneuver checklist 3. Steep Turns 4. Power On Stalls 5. Normal Approach/Landing

References: Maneuver checklist, aircraft checklist

GND: 1.5 **LESSON 4** FLT: 1.0/.3 IFR

GND: METARs, TAFs, Fronts, VFR Sectional, Weather Briefings, Dispatch Forms, the FAA Compliance Program

FLIGHT LESSON SBT: Demonstration of Aircraft Capability

Objectives	**Review of High Altitude Maneuvers**
Destination	Practice Area
Navigation	Pilotage
Deviations	None
Malfunctions	High Oil Temperature, Low Oil Pressure
Pressures	None
Hazards	Low Airspeed Maneuvering High Banks Stalls Traffic
Maneuvers	1. Slow Flight 2. Steep Turns 3. Power Off Stalls 4. Power On Stalls

References: Maneuver checklist, aircraft checklist

STAGE 2

LOW ALTITUDE MANEUVERS & LANDINGS

GND: 2.0 **LESSON 1** FLT 1.0/.3 IFR

GND: Minimum Altitudes, The effects of wind, Visual flying with instrument cross checks, turns around a point, S-turns, the PIC logging and acting

FLIGHT LESSON SBT: Search & Rescue over hazard

Objectives	**Effects of Wind**
Destination	Practice Area
Navigation	Pilotage
Deviations	None
Malfunctions	None
Pressures	None
Hazards	Low altitude Birds/Wildlife
Maneuvers	1. Turns around a point 2. Rectangular pattern 3. S-turns

References: Maneuver checklist, aircraft checklist

GND: 2.0 **LESSON 2** FLT 1.0

GND: Aircraft turning tendencies, geometry of traffic pattern, steps of a traffic pattern, joining a traffic pattern with radios, flares, medical certificates, currency vs. proficiency

FLIGHT LESSON SBT: Investigate airport surroundings

Objectives	**The Traffic Pattern**
Destination	Nearby airport
Navigation	GPS
Deviations	None
Malfunctions	None
Pressures	None
Hazards	Low altitude Low airspeed Contact with Ground Winds
Maneuvers	1. Transit to non-towered airport 2. Traffic pattern operations 3. Landings (touch and go)

References:

GND: 1.5 **LESSON 3x** FLT 1.0/.3 IFR

NOTE:
THIS LESSON REPEATS UNTIL STUDENT IS SOLID AT LANDINGS

GND: Aircraft turning tendencies, geometry of traffic pattern, steps of a traffic pattern, joining a traffic pattern with radios, flares, medical certificates, currency vs. proficiency

FLIGHT LESSON SBT: Investigate airport surroundings

Objectives	**Traffic Pattern Practice**
Destination	Nearby airport
Navigation	GPS
Deviations	None
Malfunctions	Accidental IMC
Pressures	None
Hazards	Low altitude Low airspeed Contact with Ground Winds
Maneuvers	1. Transit to non-towered airport 2. Traffic pattern operations 3. Landings (touch and go) 4. Go-Arounds

References:

GND: 1.5 **LESSON 4A** FLT 1.0

GND: Aircraft turning tendencies, Currency vs. Proficiency

FLIGHT LESSON SBT: House/Field Photography at Low Altitude

Objectives	**Ground Reference Maneuver Review**
Destination	Nearby airport
Navigation	GPS
Deviations	None
Malfunctions	None
Pressures	None
Hazards	Low altitude Low airspeed Proficiency with ground ref maneuvers Winds
Maneuvers	1. Turns around a point 2. Rectangular pattern 3. S-turns

References:

GND: 1.5 **LESSON 4B** FLT 2.0

NOTE:
THIS IS A HIGH RISK LESSON. EXECUTE ONLY WITH AN EXPERIENCED PILOT

GND: Emergency in the pattern, Engine failures in the pattern, rejected takeoffs, forward slips

FLIGHT LESSON SBT: Investigate airport surroundings

Objectives	**Pattern Emergencies**
Destination	Nearby airport, recommend towered (e.g., KLHW) with multiple crossing runways
Navigation	GPS
Deviations	None
Malfunctions	None
Pressures	Simulation of emergencies
Hazards	Low altitude Low airspeed Contact with Ground Winds Simulated emergencies
Maneuvers	1. Transit to non-towered airport 2. Rejected takeoff 3. Impossible Turn (Vx + Vy) 4. Engine out on downwind / other runways 5. Forward slips

References:

GND: 1.5 **LESSON 5A** FLT 1.0

GND: Pre-solo written exam, Endorsements completed

FLIGHT LESSON SBT: Simulation of student's first solo

Objectives	**Supervised Solo & Exam**
Destination	Nearby airport with calm winds
Navigation	GPS
Deviations	None
Malfunctions	None
Pressures	Pre-solo practice
Hazards	Low altitude Low airspeed Contact with Ground Winds Supervised Solo
Maneuvers	1. Transit to non-towered airport 2. Traffic pattern operations 3. Landings (STOP and GO) 4. Go-arounds 5. Radio Calls

References:

GND: 0.5 **LESSON 5B** FLT 0.5

GND: Verification of all documentation, ADM on location and type of operation, formal WX briefing with CFI

FLIGHT LESSON SBT: Student First Solo

Objectives	**First Solo, Baby!**
Destination	Nearby airport with calm winds
Navigation	GPS
Deviations	None
Malfunctions	None
Pressures	Pre-solo practice
Hazards	Low altitude Low airspeed Contact with Ground Winds First Solo
Maneuvers	1. 3 landings and 1 go-around with CFI 2. 3 landings (FULL STOP TAXI BACK) solo

References:

GND: 0.5 **LESSON 5C** FLT 1.5

GND: Verification of all documentation, ADM on location and type of operation, formal WX briefing with CFI

FLIGHT LESSON SBT: Student Second Solo

Objectives	**Second Solo**
Destination	Nearby airport with calm winds
Navigation	GPS
Deviations	None
Malfunctions	None
Pressures	Pre-solo practice
Hazards	Low altitude Low airspeed Contact with Ground Winds Second Solo
Maneuvers	1. As many landings as desired 2. Departure and return to traffic pattern

References:

STAGE 3

CROSS COUNTRY
& TAKEOFF/LANDING TECHNIQUES

GND: 1.0 **LESSON 1A** FLT 1.5

GND: Theory of short field and soft fields takeoffs/landings, review of Vx and Vy, factors affecting takeoff and landing performance

FLIGHT LESSON SBT: Going to meet family at random airport

Objectives	**Short Field, Soft Field, Cross Winds**
Destination	Nearby airport with stronger winds
Navigation	GPS
Deviations	None
Malfunctions	Alternator failure
Pressures	Search for suboptimal winds
Hazards	Low altitude Low airspeed Contact with Ground Winds
Maneuvers	1. Short field takeoff/landing 2. Soft field takeoff/landing 3. Cross wind takeoff/landing

References:

GND: 1.5 **LESSON 1B** FLT 1.0

GND: Review of documentation, endorsements

FLIGHT LESSON SBT: Student practice area solo

Objectives	**Practice Area Solo**
Destination	Practice area
Navigation	Pilotage
Deviations	None
Malfunctions	None
Pressures	Practice area solo
Hazards	Low altitude Low airspeed Contact with Ground Solo Winds
Maneuvers	1. At student's comfort level 2. Steep turns 3. Slow flight

References:

GND: 1.5 **LESSON 2** FLT 1.0

GND: Review of documentation, endorsements

FLIGHT LESSON SBT: Student practice area solo

Objectives	**Nearby Airport Solo**
Destination	Nearby familiar airport
Navigation	Pilotage
Deviations	None
Malfunctions	None
Pressures	Solo to other nearby airport
Hazards	Low altitude Low airspeed Contact with Ground Solo Winds
Maneuvers	1. At student's comfort level 2. Entering the traffic pattern 3. Short field Takeoff/Landing 4. Soft field Takeoff/Landing

References:

GND: 3.0 **LESSON 3** FLT 2.0

GND: Definition of Cross Country, Nature and purpose of VFR Flight Plans, Nature and purpose of FSS, Confusion with VFR Flight Following (ATC), NAV LOGs, Methods of navigation (Visual, GPS, VOR)

FLIGHT LESSON SBT: Go see a family member at new (far) field

Objectives	**Introduction to Cross Country Flights**
Destination	Airport > 50 NM away from origin
Navigation	Pilotage
Deviations	None
Malfunctions	Lost procedure, unexpected IMC
Pressures	Meet family on time
Hazards	Long-distance flight Questionable weather
Maneuvers	1. Round-Robin XC Flight 2. In-flight navigation log performance verifications 3. Simulated IFR 4. Lost Procedures 5. Parking at FBO

References:

GND: 1.5 **LESSON 4** FLT 3.0

GND: Review of documentation, Review of XC planning, WX, endorsements

FLIGHT LESSON SBT: Student Cross Country Solo

Objectives	**Cross Country Solo**
Destination	Pre-visited airport > 50 NM away from origin
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	None
Pressures	Solo cross country
Hazards	Long distance flight Changing WX Solo Flight
Maneuvers	1. Same route as for previous lesson

References:

GND: 1.5 **LESSON 5A** FLT 3.0

GND: Review of XC planning

FLIGHT LESSON SBT: Go see a family member at new (far) field

Objectives	**Long Dual XC Flight**
Destination	Three airport hop, >150 NM total distance
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	Loss of communications
Pressures	Get back on time with fuel and daytime
Hazards	Long-distance flight Questionable weather Multiple unfamiliar airports
Maneuvers	1. Long XC Flight 2. VFR Flight Following 3. In-flight navigation log performance verifications 4. Lost comms procedures 5. Parking at FBO

References:

GND: 1.5 **LESSON 5B** FLT 3.0

GND: Review of XC planning, WX, endorsements

FLIGHT LESSON SBT: Go see a family member at new (far) field

Objectives	**Long Solo XC Flight**
Destination	Same route as previous lesson (>150 NM)
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	None
Pressures	Student Long Solo XC
Hazards	Long-distance flight Changing WX Long time alone in the airplane
Maneuvers	1. Long XC Flight 2. VFR Flight Following 3. In-flight navigation log performance verifications

References:

GND: A/R **LESSON 5C** FLT: A/R

NOTE: THIS LESSON COVERS THE REMAINING CROSS COUNTRY TIME REQUIRED

GND: Review of XC planning, WX, endorsements

FLIGHT LESSON SBT: A/R

Objectives	**Remaining Solo XC Flight**
Destination	Familiar airport (previously visited with CFI)
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	None
Pressures	Student Solo XC
Hazards	Long-distance flight Changing WX Long time alone in the airplane
Maneuvers	1. XC Flight 2. VFR Flight Following 3. In-flight navigation log performance verifications

References:

STAGE 4

CHECKRIDE PREP

GND: 1.0 **LESSON 1** FLT: 1.5

GND: Review of short fields, soft fields, climb speeds, performance

FLIGHT LESSON SBT: Go see a family member at new (far) field

Objectives	**All Maneuver Checkride Prep**
Destination	Nearby airport / origin if able
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	None
Pressures	High workload flight
Hazards	Low altitude Low airspeed Contact with Ground Winds
Maneuvers	1. Short field takeoff/landings 2. Soft field takeoff/landings 3. Crosswind takeoff/landings

References:

GND: 1.0 **LESSON 2A** FLT: 1.5

GND: Recognize FAA requirements compared to other counties, definitions of night time, identify required personal equipment, minimum equipment required (91.205), airport lighting, psychology, visual illusions, ops with and without landing lights

FLIGHT LESSON SBT: Go visit a friend at night

Objectives	**Dual Night Flight**
Destination	Practice area / unpopulated area/airport
Navigation	Pilotage
Deviations	None
Malfunctions	None
Pressures	Night time, low visibility
Hazards	Night time Low visibility Challenges maintaining VFR Night visual illusions
Maneuvers	1. Night visual illusions 2. Black hole at KCWV for KTBR 3. Use of night lights 4. Airport lights 5. Landings with/without landing lights 6. Over-water CFIT experiment (if time permits)

References: FwT PPT

GND: 1.5 **LESSON 2B** FLT: 2.0

GND: Review of night visual illusions, Review of XC plan

FLIGHT LESSON SBT: You forgot a package and need to return at night to pick it up

Objectives	**Dual Night XC Flight**
Destination	Airport >50NM away
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	None
Pressures	Night time, low visibility
Hazards	Night time Low visibility Challenges maintaining VFR Night visual illusions
Maneuvers	1. XC Flight 2. VFR Flight Following 3. In-flight navigation log performance verifications

References: FwT PPT

GND: 1.5 **LESSON 3** FLT: 2.0

GND: Review of night visual illusions, Review of XC plan

FLIGHT LESSON SBT: You forgot a package and need to return at night to pick it up

Objectives	**Dual or Solo Night XC Flight**
Destination	Airport >50NM away
Navigation	Pilotage, GPS
Deviations	None
Malfunctions	None
Pressures	Night time, low visibility
Hazards	Night time Low visibility Challenges maintaining VFR Night visual illusions If solo, consider more
Maneuvers	1. XC Flight 2. VFR Flight Following 3. In-flight navigation log performance verifications

References: FwT PPT

GND: 1.5 **LESSON 4** FLT: 1.0

GND: Review of documentation, WX, endorsements

FLIGHT LESSON SBT: Student practice area solo

Objectives	**Practice Area Solo**
Destination	Practice area
Navigation	Pilotage
Deviations	None
Malfunctions	None
Pressures	Practice area solo
Hazards	Low altitude Low airspeed Contact with Ground Solo Winds
Maneuvers	1. At student's comfort level 2. Steep turns 3. Slow flight

References:

GND: A/R **LESSON 5x** FLT: A/R

GND: Review of documentation, WX, endorsements

FLIGHT LESSON SBT: Student practice area solo

Objectives	**Checkride Preperation**
Destination	Practice area / Nearby airport
Navigation	Pilotage
Deviations	None
Malfunctions	A/R
Pressures	Checkride preparation High quality flight Top performance
Hazards	Low altitude Low airspeed Contact with Ground Solo Winds
Maneuvers	1. Entire checkride prep curriculum

References:

DATE	DISPATCH SHEET
PIC	
DEP WX:	
NOTAMs	
ARR WX:	

RISK: IMSAFE – CURRENCY – FLIGHT PLAN

HAZARDS	MITIGATIONS
_____	_____
_____	_____
_____	_____
_____	_____

V_R	ATC DELAYS	TO DIS RWY AVAIL
V_X		_____ / _____
V_Y	ALTERNATES	FUEL REQ FOB
		_____ / _____
V_{BG}	W&B	LDG DIS RWY AVAIL
V_A	TOW: MTOW: CG:	_____ / _____

PRE-MANEUVER FLOW

1. CLEARING TURNS
2. Speed ~ 90 kts
3. FUEL PUMP ON
4. MIXTURE RICH
5. LANDING LIGHT ON

V SPEEDS

V_R = 55 kts
V_X = 65 kts
V_Y = 75 kts
V_{BG} = 70 kts
V_{S0} = 50 kts
V_{S1} = 58 kts
V_A = 112 kts

SHORT TAKEOFF

1. FLAPS 2 (25º)
2. FULL RUNWAY
3. HOLD BRAKES
4. ROTATE V_R
5. CLIMB V_X
6. OBSTACLE 100 FT
7. CLIMB V_Y
8. RETRACT FLAPS

SHORT LANDING

1. FLAPS 3 (40º)
2. V_{APP} 65-70kts
3. AIMING POINT
4. TOUCH DOWN PT
5. LAND ON SPOT
6. AIR BRAKES
7. FLAPS 0
8. MAX BRAKING

SLOW FLIGHT (3K)

1. FLAPS 3 (45º)
2. MAINTAIN ALTITUDE
3. MAINTAIN 55 KTS
4. PITCH FOR AIRSPEED
   POWER FOR ALTITUDE

SOFT TAKEOFF

1. FLAPS 2 (25º)
2. CONTROLS BACK
3. DON'T STOP
4. ROTATE WHEN $V_?$
5. GROUND EFFECT
6. ACCELERATE TO V_X
7. CLIMB $V_X \rightarrow V_Y$
8. RETRACT FLAPS

SOFT LANDING

1. FLAPS 3 (40º)
2. V_{APP} 70kts
3. SOFT LANDING
4. CONTROLS BACK
5. DON'T STOP

PWR OFF STALL (3K)

1. FLAPS 3 (45º)
2. DESCEND TO "RWY"
3. FLARE AT 65 kts
4. STALL
5. FULL PWR/NOSE DN
6. ARREST DESCENT
7. FLAPS 2 (35º)
8. CLIMB
9. RETRACT FLAPS SLW

S-TURNS / TURNS AROUND PT (600-1000 FT)

1. FLY ~90 kts
2. ENTER ON DOWNWIND
3. STEEP ON DOWNWIND
4. SHALLOW ON UPWIND

PWR ON STALL (3K)

1. MAINTAIN ALT
2. SLOW TO 70 kts
3. PITCH UP
4. POWER ~2200 RPM
5. STALL
6. FULL PWR/NOSE DN
7. ARREST DESCENT
8. CLIMB

EMERGENCY DESCENT RECOVER >1,500 FT

1. POWER IDLE
2. BANK 30 DEG LX/RX ON HEADING
3. ACCELERATE TO V_A
4. PREPARE FOR CRASH LANDING
   -OR-
5. BANK 45º
6. ACCELERATE TO V_A

PIPER PA-28

Reviewed 23 JAN 2025
Tizi Bernard

PRE-MANEUVER FLOW

1. CLEARING TURNS
2. FULLEST TANK
3. FUEL PUMP ON
4. MIXTURE RICH
5. GAUGES GREEN
6. LANDING LIGHT ON

V SPEEDS

V_R = 70 kts	V_{S0} = 56 kts
V_X = 75 kts	V_{S1} = 65 kts
V_Y = 95 kts	V_A = 130 kts
V_{BG} = 70 kts	V_{APP} = 75 kts

SHORT TAKEOFF

1. FLAPS 50%
2. FULL RUNWAY
3. HOLD BRAKES
4. ROTATE 65
5. CLIMB V_X
6. OBSTACLE 100ft
7. CLIMB V_Y
8. RETRACT FLAPS

SHORT LANDING

1. FLAPS 100%
2. V_{APP} 75
3. AIMING POINT
4. TOUCH DOWN PT
5. LAND ON SPOT
6. AIR BRAKES
7. FLAPS 0
8. MAX BRAKING

SOFT TAKEOFF

1. FLAPS 50%
2. CONTROLS BACK
3. DON'T STOP
4. ROTATE WHEN $V_?$
5. GROUND EFFECT
6. ACCEL TO V_X
7. CLIMB $V_X \rightarrow V_Y$
8. RETRACT FLAPS

SOFT LANDING

1. FLAPS 100%
2. V_{APP} 75
3. IDLE IN GND EFF
4. SOFT LANDING
5. CONTROLS BACK
6. DON'T STOP

S-TURNS / TURNS AROUND PT (600-1000 FT; LIMIT 30 bank)

1. POWER 50%
2. ENTER ON DOWNWIND
3. STEEP ON DOWNWIND

STEEP TURNS

1. POWER 60%
2. FLY 120 kts
3. INCREASE POWER 5%. PITCH 2.5

EMERGENCY DESCENT (Recover >1,500 FT)

1. POWER IDLE
2. ACCELERATE TO V_{NE}
3. PREPARE FOR CRASH LANDING

SLOW FLIGHT (3K)

5. POWER 25%
6. FLAPS 100%
7. FLY 60-65 kts

PWR OFF STALL (3K)

1. POWER 25%
2. LEVEL TO 75 kts
3. DESCEND TO "RWY"
4. FLAPS 50, THEN 100
5. STALL (PITCH 5-7.5)
6. FULL PWR/NOSE DN
7. ARREST DESCENT
8. FLAPS 50%
9. CLIMB V_X
10. CLIMB 85, FLAPS 0
11. CLIMB V_Y

PWR ON STALL (3K)

1. POWER 25%
2. LEVEL TO 75 kts
3. FLAPS 50%
4. AT 70, POWER 65%
5. STALL
6. FULL PWR/NOSE DN
7. ARREST DESCENT
8. CLIMB V_X
9. CLIMB 85, FLAPS 0

CIRRUS SR20 G2

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Tizi Bernard

PRE-MANEUVER FLOW

1. CLEARING TURNS
2. FULLEST TANK
3. FUEL PUMP ON
4. MIXTURE RICH
5. GAUGES GREEN
6. LANDING LIGHT ON

V SPEEDS

V_R = 75 kts	V_{S0} = 56 kts
V_X = 81 kts	V_{S1} = 65 kts
V_Y = 95 kts	V_A = 130 kts
V_{BG} = 70 kts	V_{REF} = 80 kts

SHORT TAKEOFF

1. FLAPS 50%
2. FULL RUNWAY
3. HOLD BRAKES
4. MIXTURE TOP ARC
5. ROTATE 71 kts
6. CLIMB 81 kts
7. OBSTACLE 100ft
8. CLIMB V_Y
9. RETRACT FLAPS

SHORT LANDING

1. FLAPS 100%
2. V_{REF} 80 kts
3. AIMING POINT
4. TOUCH DOWN PT
5. LAND ON SPOT
6. AIR BRAKES
7. FLAPS 0
8. MAX BRAKING

SLOW FLIGHT (3K)

1. POWER 25%
2. FLAPS 100%
3. FLY 60-65 kts

SOFT TAKEOFF

1. FLAPS 50%
2. CONTROLS BACK
3. DON'T STOP
4. ROTATE WHEN $V_?$
5. GROUND EFFECT
6. ACCEL TO 81 OR V_Y
7. CLIMB 81 OR V_Y
8. RETRACT FLAPS

SOFT LANDING

1. FLAPS 100%
2. V_{REF} 80 kts
3. IDLE IN GND EFF
4. SOFT LANDING
5. CONTROLS BACK
6. DON'T STOP

PWR OFF STALL (3K)

1. POWER 25%
2. LEVEL TO 75 kts
3. DESCEND TO "RWY"
4. FLAPS 50, THEN 100
5. STALL (PITCH 5-7.5)
6. FULL PWR/NOSE DN
7. ARREST DESCENT
8. FLAPS 50%
9. CLIMB V_X
10. CLIMB 85, FLAPS 0
11. CLIMB V_Y

S-TURNS / TURNS AROUND PT (600-1000 FT; LIMIT 30 bank)

1. POWER 50%
2. ENTER ON DOWNWIND
3. STEEP ON DOWNWIND

PWR ON STALL (3K)

1. POWER 25%
2. FLAPS 50%
3. AT 75, POWER 65%
4. STALL
5. FULL PWR/NOSE DN
6. ARREST DESCENT
7. CLIMB V_X
8. CLIMB 85, FLAPS 0

STEEP TURNS

1. POWER 60%
2. FLY 120 kts
3. INCREASE POWER 5%, PITCH 2.5

EMERGENCY DESCENT (Recover >1,500 FT)

1. POWER IDLE
2. ACCELERATE TO V_{NE}
3. PREPARE FOR CRASH LANDING

CIRRUS SR20 G6

Reviewed 23 FEB 2025
Tizi Bernard

CLEAN PRE-MANEUVER FLOW

1. CLEARING TURNS
2. THROTTLE 20" MP
3. FUEL PUMPS ON
4. FUEL SELECTORS MAIN
5. COWL FLAPS OPEN
6. MIXTURE LEAN TO X
7. PROPS FORWARD

V SPEEDS

V_R = 80kts / 90mph
V_X = 80kts / 90mph
V_Y = 100kts / 110mph
V_{SE} = 90kts / 105mph
V_{S0} = 60kts / 70mph
V_{S1} = 66kts / 76mph

OEI

1. PITCH
2. AIRSPEED
3. FWD / FWD / FWD
4. FLY >BLUE LINE
5. FLAPS UP
6. GEAR UP
7. IDENTIFY
8. VERIFY
9. SECURE

SHORT TAKEOFF

1. FLAPS 50%
2. ROTATE 80 MPH
3. CLIMB RED LINE
4. CLIMB BLUE LINE
5. FLAPS UP
6. GEAR UP

SHORT LANDING

1. <150 GEAR DWN
2. FLAPS 50%
3. DESC BLUE LINE
4. FLAPS 100%
5. SHORT RED LINE
6. IDLE THRESHOLD

STEEP TURN (3K)

8. THROTTLE 18"
9. FLY 140 MPH

PWR ON STALL (3K)

1. THROTTLE 12"
2. MAINTAIN ALT
3. SLW TO **BLUE** LINE
4. PWR TO 18"
5. PITCH UP
6. RECOVER
7. CLIMB **BLUE** LINE

V_{MC} DEMO (3K)

1. THROTTLE 20"
2. LX ENGINE IDLE
3. **OEI PROCEDURE**
4. RX RUDDER
5. RAISE NOSE
6. THROTTLE IDLE
7. RX THROTTLE FULL
8. CLIMB **BLUE** LINE
9. SCISSOR

SLOW FLIGHT (3K)

1. GEAR DWN
2. FLAPS 100%
3. FLY RED LINE

PWR OFF STAL (3K)

1. GEAR DWN
2. FLAPS 100%
3. 95 MPH NOSE UP
4. FULL FORWARD
5. FLAPS 50%
6. CLIMB **BLUE** LINE
7. GEAR UP
8. FLAPS 0

ACCELER STALL (3K)

1. THROTTLE 12"
2. MAINTAIN ALT
3. SLW TO 120 MPH
4. IDLE
5. BANK 45, PTCH UP
6. RECOVER
7. ADD POWER
8. CLIMB **BLUE** LINE

ENGINE OFF (3K)

1. FLY > BLUE LINE
2. **OEI PROCEDURE**
3. IDLE/IDLE/IDLE
   CYL HEAD GREEN
4. PROP FWD
5. THROTTLE ¼"
6. MIXTURE IDLE
7. CRANK / MIX UP
8. THROTTLE 20"
   CYL HEAD WHITE
9. NORMAL START
10. THROTTLE 12"

Reviewed 23 JAN 2025
Tizi Bernard / Aaron Barr

PIPER **PA-30**

TRIP DISPATCH RECORD

DATE:

FILED ROUTE:

ALTERNATE:

	DISTANCE	TIME	FUEL
TRIP			
DELAY		00:10	2.0
ALTERNATE			
RESERVES		00:45	8.0
MINIMUM REQUIRED			
TOTAL ON BOARD			
EXTRA (TOT-MIN)			


BARELY RESPECTABLE
FLY
WITH
TIZI
IF NOT OFFENSIVE