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**Lesson #1G: INTRO & FAM**

* **Facility Tour**
* **Cost Estimate**
* **List of Materials Needed/Recommended**
* **Encourage Medical Prior to Starting**
* IACRA (Medical/Student Pilot Certificate)
* Copies of All Docs: Med/DL/Birth/Passport)
* Part 61 Course Timeline & Flight Requirements
* Required Pilot Documents
* Medical Classes & Durations
* Pilot Certificates: Currency & Limitations
* Risk Mgt & Aero Decision Making: IMSAFE / PAVE
* Ground Safety Practices, Procedures & Equip
* Checklist Use – All Phases
* Positive Exchange of Flight Controls
* Primary & Secondary Flight Controls
* Basic Attitude Flying (S&L, Climbs, Descents)
	+ 6 Pack
	+ V Speeds
	+ Trim

**Lesson #1F: INTRO & FAM (1.0)**

* **U** Ground Safety Practices, Procedures & Equip
* **D** Preflight Inspection, Flt Ctls, Systems
* **U** Positive Exchange of Flt Ctls
* **D** Prestart Checks, Start & Warmup
* **D/IA** Taxiing: Signs & Markings
* **D** Runup & Before-T/O Checks
* **D/IA** Normal T/O & Climb
* **D/IA** Level Off
* **D** Checklist Use – All Phases
* **D** Collision Avoidance
* **D/IA** Trim: Corr Direction
* **IA** Straight & Level: Outside Refs & Corr’s
* **D** Tendency for S&L: Stability
* **IA** Turn Coord: Rudder Use
* **IA** Med AOB Turns: Starts, Stops, Level
* **D/IA** Climbs (Initiation) & Level Off
* **D/IA** Descents (Establish) & Level Off
* **O** Area Fam
* **D** Norm App, Checklist Use & LDG
* **D** Aft LDG Checks, Taxiing, Parking & Shutdown
* **D** Post Flight Procedures

**Lesson #2G: EXPLORING CONTROL**

* Area Fam: Airport Diagram & Practice Areas
* Full Preflight
* Ground Safety Practices, Procedures & Equip
* Risk Mgt & ADM: IMSAFE / PAVE / 5 P’s
* Positive Exchange of Flight Controls
* Checklist Use – All Phases
* Runway Orientation & Winds
* Taxiing: AD, Winds, Signs & Markings
* Basic Attitude Flying
	+ Holding Heading
	+ Holding Altitudes
	+ Turns
	+ Climbs & Descents
	+ Trim

**Lesson #2F: EXPLORING CONTROL (1.0)**

* **IA** Preflight Inspection, Flt Ctls, Systems
* **IA** Ground Safety Practices, Procedures & Equip
* **IA** Prestart Checks, Start & Warmup
* **IA** Radio Comms: Sets Radios, ATIS, Taxi Calls
* **IA** Taxi & Rwy Incursion: AD, Signs & Markings
* **IA** Runup & Before-T/O Checks
* **D/IA** Normal T/O & Climb
* **IA** Level Off ±300’
* **IA** Checklist Use – All Phases
* **IA** Collision Avoidance
* Trim: Corr Direction
* S&L: ±200’/20º
* Turn Coord: Rudder & Elevator Use
* Med AOB Turns: ±200’/20º
* **IA** Climb/Descent WWO Turns ±10KIAS/200’/20º
* **IA** Descents WWO Flaps
* **IA** Power Off Descent (No Flap): Vg
* **O** Area Fam
* **D** Norm App, Checklist Use & LDG
* **IA** Aft LDG Checks, Taxi (AD), Parking & Shutdown
* Post Flight Procedures

**Lesson #3G: FORCES & SPACE**

* Forces of Flight
	+ Lift / Weight / Thrust / Drag
	+ Lift
	+ Stalls / Spins / Recovery: PARE
* Aircraft Stability
* LT Tendencies
* Rudder & Adverse Yaw
* Basic ATC Structure & NAS
* Traffic Pattern
* Required Preflight Actions: NWKRAFT

**Lesson #3F: INSTRUMENTS & SLOW FLT (1.1)**

* **IA** Risk Mgt: PAVE, Fuel Plan, Wx, W&B
* **IA** Preflight, Start, Taxi, Runup & Bef-T/O Checks
* **IA** Radio Comms: Taxi, T/O & Pre-LDG
* **IA** X-Wind Taxi: AD Use
* **IA** Normal T/O & Climb: ±10KIAS, Scan
* S&L: ±150’/15º
* Med AOB Turns: ±150’/15º
* Climb/Descent WWO Turns ±10K/100’/20º
* P-Off Descent: Vg, 180 Turn, Level Off ±100’
* **D/IA** S-Turn Coord Drill: 30º AOB + Nose Centered
* Trim: Corr Direction
* S&L on Flt IRs ±300’/20º
* Turns on Flt IRs ±300’/20º
* **D** Climbs & Descents on Flt IRs ±15º
* **IA** Flying Slowly @ 1.1Vso
* **IA** App Descent LDG Config
* **D/IA** TOGA All Configs
* **U** Area Recognition
* **IA** Norm App & LDG
* **IA** Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #4G: ATTITUDES & STALLS**

* Basic Attitude Flying
	+ Pitch-Power Tables
* Steep Turns
* Rudder & Adverse Yaw
* Slow Flight
* Stalls / Spin Awareness

**Lesson #4F: STALLS & IMPROVED CONTROL (1.1)**

**Recommend 0.3 IR**

* Risk Mgt: PAVE, Fuel Plan, Wx
* **U** Stall/Spin Aware: Aero, Signs, Yaw
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* **IA** Radio Comms: Taxi, T/O & Pre-LDG
* X-Wind Taxi: AD Use
* **IA** Normal T/O & Climb: CL, ±10KIAS, Scan
* Fun Maneuvers: ±10º/150’/15º/10KIAS
* **(IR)** Maneuvers: ±15ºAOB/250’/20º/10KIAS
* **IA** Flying Slowly @ 1.1Vso
* **IA** Roll/Yaw at High AOA
* **D/IA** P-Off Stall – Recovery @ First Indication
* **D** P-Off Descent to Emerg App & LDG (500’min)
* S-Turn Coord Drill: 30º AOB + Nose Centered
* TOGA All Configs
* Collision Avoidance
* **IA** A/P Traffic Pattern: Comply w/Instructions
* **IA** Norm & X-Wind App & LDG
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #5G: WEATHER & EQUIPMENT**

* VFR & IFR
* Airport Wx: METAR / TAF
* AIRMETS & SIGMETS
* Airspace
	+ Classes
	+ Equipment Req’d
	+ Cloud Clearances
* VFR Required Equipment
	+ Day
	+ Night
	+ Inoperative

**Lesson #5F: GROUND REFERENCE (1.0)**

* Risk Mgt & ADM: PAVE
* **U** SRM
* Stall/Spin Aware: Aero, Signs, Yaw
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* **IA** Radio Comms: Taxi, T/O & Pre-LDG
* Norm/X-Wind T/O & Climb: CL, ±5KIAS & Scan
* Fun Maneuvers: ±10ºAOB/150’/15º/10KIAS
* Crab & WCA: Track Ground
* **D/IA** Turns @ Point: ± 200’
* **D/IA** Rectangular Course: ± 200’
* Sideslip: Track Ground
* Fwd Slip: Descend while Tracking Ground
* P-Off Stall: Recover First Ind
* **IA** P-On Stall: Recover First Ind
* P-Off Descent: Sim Emerg LDG ±15KIAS
* TOGA all Configs
* **IA** A/P Traffic Pattern: ±150’
* **IA** Norm & X-Wind App & LDG
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #6G: PERFORMANCE & W&B**

* Full W&B
* Performance Charts
* Systems
	+ Basic Engine
	+ Fuel
	+ Oil
	+ Vacuum

**Lesson #6F: IR REF & PROGRESS CHECK (1.3)**

**Recommend 0.3 IR**

* Risk Mgt & ADM: PAVE
* Stall/Spin Awareness
* Safety Equipment SAFETY
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Radio Comms: Taxi, T/O & Pre-LDG
* Norm/X-Wind T/O & Climb: CL, ±10KIAS, Scan
* Collision Avoidance: Clearing Turns
* Fun Maneuvers: ±10ºAOB/150’/10º/10KIAS
* **(IR)** Maneuvers: ±15ºAOB/250’/15º/10KIAS
* Slow Flt SL & Turns: 10ºAOB/200’/15º/15KIAS
* Power Off Stall (FULL)
* Power On Stall
* Fwd Slip: Descend while Tracking Ground
* Rectangular Course / Turns @ Point ±200’
* TOGA all Configs
* A/P Traffic Pattern: ±150’
* **IA** Norm & X-Wind App & LDG
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #7G: LDGs**

* Traffic Pattern
	+ Numbers
	+ Configuration
* W-Wind LDGs
* Wing Tip Vortices & Wake Turbulence
* Controlled vs. Uncontrolled Airfields

**Lesson #7F: NORM T/O & LDG (1.0)**

**Recommend 0.3 IR**

* Risk Mgt & ADM: PAVE
* SRM
* Stall/Spin Awareness
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* Pilotage
* **D/IA** Steep Turns 10ºAOB/250’/20º/10KIAS
* Power Off Stall (FULL)
* TOGA from LDG Config & Stabilized App
* Rectangular Course ±150’
* **D/IA** S Turns ±150’
* **(IR)** Turns to Hdg 10ºAOB/200’/15º/10KIAS
* A/P Traffic Pattern: ±150’
* Norm App & LDG x 3 FULL STOP
* TOGA from Base / Final / Start of Flare
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #8F: CROSSWIND T/O & LDG (1.1)**

* Risk Mgt & ADM: PAVE
* SRM
* Wake Turbulence Avoidance
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* Pilotage
* Steep Turns 10ºAOB/200’/20º/10KIAS
* Slow Flt ALL 10ºAOB/150’/20º/10KIAS
* TOGA from LDG Config & Stabilized App
* Fwd Slip L & R
* Ground Reference Maneuver ±150’
* Norm App & Ldg +10-5KIAS
* Fwd Slip to Ldg
* **D** Sideslip Exercise over Rwy to TOGA
* Crosswind Ldg Full Stop x 3
* TOGA
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #9F: IR REF & LDG PROFICIENCY (1.1)**

* Risk Mgt & ADM: PAVE & 5P’s
* SRM
* Wake Turbulence Avoidance
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* **(IR)** Constant A/S Climbs/Descents ±10KIAS
* Steep Turns 10ºAOB/150’/15º/10KIAS
* **D** Emergency App & LDG at Altitude ±15KIAS
* NORDO
* Airport TP ±100’
* Norm & X-Wind App & Ldgs +10-5KIAS
* TOGA
* Rejected T/O
* Fwd Slip to Ldg
* LDG w/o ASI
* LDG w/o ALT
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #10G: EP Simulator**

* Aviate – Navigate - Communicate
* Lost 5C’s
* NORDO
* Emergency Procedures
	+ Squawks
	+ Guard
	+ Distress Calls
* Follow Guide in Simulator Binder

**Lesson #10F: DEALING W/EMERGENCIES (1.1)**

* Risk Mgt & ADM: PAVE & 5P’s
* Lost / SA / 5C’s
* Wake Turbulence Avoidance
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* Blocked Pitot Static Sys
* Electrical System Failure
* Eng Fail @ Alt & Simulated LDG ±10KIAS
* Eng Fail @ T/O ±10KIAS
* Emergency Descent (30-40ºAOB + Max Spd)
* Eng Fire ±10KIAS
* Norm & X-Wind App & Ldgs +10-5KIAS
* **Uncontrolled Field Operations**
* No-Flap Ldg
* TOGA
* Rejected T/O
* Fwd Slip to Ldg
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #11F: PRE-SOLO PROGRESS CHECK (1.3)**

**Recommend 0.3 IR**

* Risk Mgt & ADM: PAVE & 5P’s
* SRM
* Lost / SA / 5C’s
* Stall/Spin Aware
* Wake Turbulence Avoidance
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Radio Comms
* Collision Avoidance
* Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* Fun 10ºAOB/100’/10º/10KIAS
* **(IR)** Fun 10ºAOB/150’/15º/10KIAS
* Steep Turns 10ºAOB/150’/15º/10KIAS
* Slow Flight ALL 10ºAOB/150’/10º/+15-0KIAS
* Stall Series FULL
* Eng Failures @ Alt and T/O
* Ground Ref Maneuvers ±150’
* Norm & X-Wind App & Ldgs +10-5KIAS
* TOGA +10-5KIAS
* Rejected T/O
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #12F: FIRST SOLO (0.8 DUAL/0.3 SOLO)**

* **Pre-Solo Aeronautical Knowledge Test**
* SRM
* Risk Mgt & ADM: PAVE & 5P’s
* Aircraft Performance & W&B
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Radio Comms
* Collision Avoidance
* Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* Pilotage to Practice Area
* Ground Ref Maneuvers ±150’
* Airport TP ±100’
* Norm & X-Wind App & Ldg +10-5KIAS
* TOGA +10-5KIAS
* **Logbook Endorsement**

**------------------------------- SOLO -----------------------------------**

* **S** Radio Comms
* **S** Ground & Taxi Ops
* **S** Norm/X-Wind T/O & Climb ±100’
* **S** Norm App & Ldgs FULL STOP x 3
* **S** Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #13F: REVIEW & SOLO (0.6 DUAL/0.5 SOLO)**

* SRM & Cockpit Mgt
* Risk Mgt & ADM: PAVE & 5P’s
* Aircraft Performance & W&B
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Norm/X-Wind T/O & Climb: CL, +10/-5KIAS, Scan
* Eng Failure Climb ±10KIAS
* Pilotage to Practice Area
* Slow Flight ALL 10AOB/150’/10º/+15-0KIAS
* Stall Series FULL
* Steep Turns: 5ºAOB/100’/10º/10KIAS
* Eng Fire, Emergency Descent & Ldg ±10KIAS
* Norm & X-Wind App & Ldg +10-5KIAS
* Fwd Slip to Ldg

**------------------------------------ SOLO -------------------------------**

* **S** Norm/X-Wind T/O & Climb
* **S** Pilotage to Practice Area
* **S** Steep Turns 5ºAOB/100’/10º/10KIAS
* **S** Pilotage to Airport
* **S** Airport Traffic Pattern ±100’
* **S** Norm/X-Wind T/O & Climb: CL, +10-5KIAS, Scan
* **S** Norm App & Ldgs FULL STOP x 3
* **S** Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #14F: SHORT FIELD T/O & LDGS (1.0)**

* Calculate T/O & LDG Performance
* Risk Mgt & ADM: PAVE & 5P’s
* Windshear Awareness & Recovery
* Stall/Spin Aware
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* **D** Short Field T/O & Climb: Vx +10-5KIAS
* Eng Failure Climb ±10KIAS
* Slow Flight w/Distractions ±150’/+10-0KIAS
* Stall Series FULL
* Rectangular Course ±100’
* Turns @ Point ±100’
* S Turns ±100’
* **D** Short Field App & Ldg +10-5KIAS & +400-0’
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #15F: MANEUVER & LDG SKILLS (1.2 SOLO)**

* **S** Calc T/O & LDG Performance
* **S** Calc W&B
* **S** Preflight, Start, Taxi, Runup & Bef-T/O Checks
* **S** Normal & X-Wind T/O & Climb
* **S** Pilotage to Practice Area
* **S** Steep Turns 5ºAOB/100’/10º/10KIAS
* **S** Rectangular Course ±100’
* **S** Turns @ Point ±100’
* **S** S Turns ±100’
* **S** Pilotage from Practice Area
* **S** Airport Traffic Pattern Entry ±100’
* **S** Fwd Slip to Ldg
* **S** Normal App & Ldg FULL STOP x 3
* **S** TOGA
* **S** Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #16F: SOFT FIELD T/O & LDGS (1.2)**

* Calculate T/O & LDG Performance
* Risk Mgt & ADM: PAVE & 5P’s
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Soft Field Taxiing
* **D** Soft Field T/O & Climb: Vx & Vy +10-5KIAS
* Eng Failure Climb ±10KIAS
* Slow Flight w/Distractions ±150’/+10-0KIAS
* Stall Series FULL
* Eng Fire, Emergency Descent & Ldg ±10KIAS
* S Turns ±100’
* **D** Soft Field App & Ldg +10-5KIAS
* TOGA
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #17F: MANEUVERS (1.4 SOLO)**

* **S** RM / PAVE / 5P’s
* **S** Normal & X-Wind T/O & Climb
* **S** Pilotage to Practice Area
* **S** Steep Turns 5ºAOB/100’/10º/10KIAS
* **S** Rectangular Course ±100’
* **S** Turns @ Point ±100’
* **S** S Turns ±100’
* **S** Pilotage from Practice Area
* **S** Airport Traffic Pattern Entry ±100’
* **S** Fwd Slip to Ldg
* **S** Normal & X-wind App & Ldg +400-0’
* **S** Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #18G: CROSS COUNTRY PLANNING**

* Planning Example to KMOB
	+ Pilotage
	+ Dead Reckoning
	+ Electronic Nav
* UNOS/ANDS
* Sectional Charts
* Paper vs. EFB (Paper Req’d 1st X-Cty)
* Complete Nav Log

**Lesson #18F: CROSS COUNTRY (1.3)**

* Risk Mgt & ADM: SAFETY / PAVE / 5P’S
* W&B & Performance
* Flight Plan – Route, Alt, Wx, NAS, NOTAMS
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Short Field T/O & Climb: Vx & Vy ±5KIAS
* Open Flight Plan (FSS)
* En Route Cruise – Pwr & Mix, TAS, FF Planning
* Pilotage
* Dead Reckoning Navigation
* Flying Mag Compass Only
* C/P Mgt
* Task Mgt
* Collision Avoidance
* Lost Procedures / 5C’s
* Diversion to Alt
* Traffic Pattern ±100’
* Short Field App & Ldg +10/-5KIAS, 0-400’
* Soft Field T/O & Climb +10-5KIAS
* Soft Field App & Ldg +10-5KIAS
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #19F: ELECTRONIC NAVIGATION (1.1)**

**Recommend 0.4 IR**

* Risk Mgt & ADM: SAFETY / PAVE / 5P’S
* W&B & Performance
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* NAVAIDS / GPS set per Flight Plan
* Soft Field T/O & Climb: Vx & Vy ±5KIAS
* VOR Orientation, Intercept, Tracking & Fixes
* Localizer Course Intercepting & Tracking
* GPS Nav
* In-Flight Wx Resources (FSS, HIWAS, ATIS, FF)
* **(IR)** Fun 10ºAOB/150’/15º/10KIAS
* **(IR)** Electronic Nav ±200’/Half Deflection
* **(IR)** UA Recovery
* Federal Airways
* Soft Field App & Ldg +10-5KIAS
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #20F: ALL SYS CROSS COUNTRY (1.3)**

* Risk Mgt & ADM: SAFETY / PAVE / 5P’S
* SRM
* W&B & Performance
* Flight Plan: Route, Alt, Wx, NOTAMs, NAS
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* FSS & ATC: Open Flt Plan & Req Flight Follow
* En Route Cruise: Pwr/Mix/TAS/Fuel Plan
* Pilotage & Dead Reckoning
* Mag Compass Only
* Elect Nav: 1 Leg VOR, 1 Leg GPS (Max)
* Task Mgt
* C/P Mgt
* Collision Avoidance
* Lost Procedures
* In-Flight Wx Resources (FSS, HIWAS, ATIS, FF)
* Alternate Diversion
* Traffic Pattern ±100’
* Soft Field App & Ldg +10-5KIAS
* Short Field T/O & Climb ±5KIAS
* Short Field App & Ldg +10-5KIAS, 0-400’
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #21G: NIGHT FLYING**

* Day vs Night
	+ Illusions: Optical & Vestibular
	+ Difficulty in Seeing Wx
	+ Emphasize Electronic Nav
* O2 Requirements vs Recommendations

**Lesson #21F: NIGHT FLYING (1.4)**

**Recommend 6 FS LDGs**

**Recommend 2 Ldg Lite Off LDGs**

**Recommend 0.4 IR**

* Risk Mgt & ADM: PAVE / Fatigue / Equip / Wx
* Night Fly Physio: Vision/Sca/Vis Ref’s
* SRM
* CFIT
* Airport Layout/Lighting/Hours
* Preflight Insp at Night
* Night Start: B/U lights, A/C lighting
* Taxi at Night: Strobes/lights usage
* Bef-T/O Checks at Night: No Movement
* Night T/O
* Night Climb: AI Climb Att, Vy±10KIAS
* Night Local Area Fam
* **(IR)** Const ASI Climb Vy±10KIAS/15º/±200’
* **(IR)** Const ASI Descent ±10KIAS/15º/±200’
* **(IR)** 180º Turn 10AOB/±10KIAS/15º/±200’
* **(IR)** UA Recovery
* Night App & Ldg ±100’/+10-5KIAS
* Night TOGA +10-5KIAS
* Night Taxi, Parking, Shutdown & Post-Flt

**Lesson #22F: SOLO X-CTY PROG CHECK (1.3)**

* Risk Mgt & ADM: SAFETY / PAVE / 5P’S
* Emergency Equip & Survival Gear
* SRM
* Flight Plan: Route, Alt, Wx, NOTAMs, NAS
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Short Field T/O & Climb ±5KIAS
* FSS & ATC: Open Flt Plan & Req Flight Follow
* En Route Cruise: Pwr/Mix/TAS/Fuel Plan
* Navigation: Pilotage, DR, Elect ±2NM/3MIN
* Mag Compass Only
* Task Mgt
* C/P Mgt
* Collision Avoidance
* Elect Fail (Simulated)
* Lost Procedures
* Diversion to Alt
* Short Field App & Ldg +10-5KIAS, 0-400’
* Soft Field T/O & Climb +10-5KIAS
* Soft Field App & Ldg +10-5KIAS
* No-Flap Ldg
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #23F: FIRST SOLO X-CTY (1.5 SOLO)**

**=>50 NM Straight Line Distance**

* **FAA Knowledge Test**
* Risk Mgt
* SRM
* Route Briefing
* Navigation Plan
* Lost Procedures
* Weather Briefing
* Destination & Alternate Facilities, ATC, CTAF
* W&B and Performance
* Emergency & Survival Equip
* Emerg Ops (Eng Rough/Fail/Fire, Elect, NORDO)
* FSS and ATC Services
* **Logbook Endorsements & Required Documents**

**----------------------------------- SOLO --------------------------------**

* **S** Flight: 50nm Straight Line, Full Stop LDG
* Close Flight Plan / Debrief w/RI

**Lesson #24F: NIGHT CROSS COUNTRY (1.6)**

**Recommend 4 FS LDGs**

**Recommend 0.3 IR**

* Risk Mgt & ADM: SAFETY / PAVE / 5P’S
* Emergency Equip & Survival Gear
* SRM
* Physio Aspects of Night Flying
* Route Briefing
* Weather Briefing
* Destination & Alternate Facilities, ATC, CTAF
* CFIT
* Airport Layout/Lighting/Hours
* Night Preflight Insp & Startup
* Night Taxi & Bef T/O Checks
* Night T/O & Climb ±10KIAS
* FSS and ATC Radar Services
* Collision Avoidance
* Nav: DR/Pilotage/VOR/GPS ±2NM/3MIN
* **(IR)** Electronic Nav: ½ CDI Deflection Max
* **(IR)** 180 Level Turn AOB10º/15º/200’/10KIAS
* Lost Procedures
* Emerg Ops: Rough/Elect/DG/NORDO
* Night App & Ldg ±100’/+10-5KIAS
* Night Ldgs w/o Ldg Light
* Night TOGA +10-5KIAS
* Night Taxi, Parking, Shutdown & Post-Flt

**Lesson #25F: SECOND SOLO X-CTY (1.6 SOLO)**

**=>50 NM Straight Line Distance**

* **Logbook Endorsements & Required Documents**
* Risk Mgt
* SRM
* Route Briefing
* Navigation Plan
* Lost Procedures
* Weather Briefing
* Destination & Alternate Facilities, ATC, CTAF
* W&B and Performance
* Emergency & Survival Equip
* Emerg Ops (Eng Rough/Fail/Fire, Elect, NORDO)
* FSS and ATC Services

**------------------------------------ SOLO ---------------------------------**

* **S** Flight: 50nm Straight Line, Full Stop LDG
* Close Flight Plan / Debrief w/RI

**Lesson #26F: EMERGENCIES & IR REVIEW (1.4)**

**Recommend 0.4 IR**

* Risk Mgt
* SRM
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* Short Field T/O & Climb ±5KIAS
* Soft Field T/O & Climb ±5KIAS
* Rejected T/O
* Eng Fail on T/O ±10KIAS
* Eng Fire/Emerg Descent/Emerg Ldg ±10KIAS
* **(IR)** Const ASI Climb ±5KIAS
* **(IR)** Const ASI Descent ±5KIAS
* **(IR)** 180 Level Turn 5ºAOB/150’/10º/±10KIAS
* **(IR)** Electronic Nav 150’/10º/10KIAS/CDI ½ Def
* **(IR)** UA Recovery
* Electrical Failure
* Emergency Comms & ATC Resources
* Short Field App & Ldg ±5KIAS, 400’
* Soft Field App & Ldg ±5KIAS
* No Flap Ldg ±10KIAS, First 500’
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #27F: LONG SOLO X-CTY (2.2 SOLO)**

**=>150NM, One Leg >50NM**

* **Logbook Endorsements & Required Documents**
* Risk Mgt
* SRM
* Route Briefing
* Navigation Plan
* Lost Procedures
* Weather Briefing
* Destination & Alternate Facilities, ATC, CTAF
* W&B and Performance
* Emergency & Survival Equip
* Emerg Ops (Eng Rough/Fail/Fire, Elect, NORDO)
* FSS and ATC Services

**------------------------------------ SOLO ---------------------------------**

* **S** Flight: 3 Legs=>150NM, 1 Leg>50NM, FS LDGs
* Close Flight Plan / Debrief w/RI

**Lesson #28F: MANEUVERS REVIEW (1.6)**

**Recommend ACS Standards**

* Risk Mgt & ADM: PAVE & 5P’s
* Stall/Spin Aware
* Preflight, Start, Taxi, Runup & Bef-T/O Checks
* X-Wind T/O & Climb (ACS)
* Short Field T/O & Climb (ACS)
* Steep Turns (ACS)
* Slow Flt Maneuvers (ACS)
* Power Off Stall (ACS)
* Power On Stall (ACS)
* Systems & Equip Malf’s
* Rectangular Course (ACS)
* Turns @ Point (ACS)
* X-Wind App & LDG
* Soft Field App & LDG
* Short Field App & LDG
* TOGA all Configs
* Fwd Slip to LDG
* Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #29F: SOLO PRACTICE (1.6 SOLO)**

* **S** Risk Mgt & ADM: PAVE in Relation to Flight
* **S** Preflight, Start, Taxi, Runup & Bef-T/O Checks
* **S** Norm & X-Wind T/O & Climb (ACS)
* **S** Short Field T/O & Climb (ACS)
* **S** Soft Field T/O & Climb (ACS)
* **S** Steep Turns (ACS)
* **S** Slow Flt Maneuvers (ACS)
* **S** Power Off Stall (ACS)
* **S** Systems & Equip Malf’s
* **S** Rectangular Course (ACS)
* **S** S Turns (ACS)
* **S** Turns @ Point (ACS)
* **S** Norm & X-Wind App & LDG
* **S** Soft Field App & LDG
* **S** Short Field App & LDG
* **S** Fwd Slip to LDG
* **S** Aft LDG, Taxi, Parking, Shutdown & Post-Flt

**Lesson #30F: PRE-CHECKRIDE IR REVIEW (1.6)**

**Recommend 0.3 IR**

**ACS Standards**

* **Special Emphasis Areas**
	+ **SRM**
	+ **RM**
	+ **ADM**
	+ **Task Mgt**
	+ **SA**
	+ **CFIT**
	+ **Flt Ctl Pos Exchng**
	+ **Wake Turbulence**
	+ **LAHSO**
	+ **Rwy Incursion**
* **Certs & Documents**
* **Airworthiness Req’s**
* **Weather**
* **X-Country Flt Planning**
* **NAS**
* **Perf & Limitations**
* **Operations of Systems**
* **Aeromedical Factors**
* **Preflight Inspection**
* **Cockpit Mgt**
* **Engine Start**
* **Taxiing**
* **Before T/O Checks**
* **Comms & Light Signals**
* **Traffic Patterns**
* **Airport Signs & Lights**
* **Norm T/O & Climb**
* **Norm App & LDG**
* **X-Wind T/O & Climb**
* **X-Wind App & LDG**
* **Soft T/O & Climb**
* **Soft App & LDG**
* **Short T/O & Climb**
* **Short App & LDG**
* **Steep Turns**
* **Fwd Slip to LDG**
* **TOGA**
* **Steep Turns**
* **Rec Course**
* **S Turns**
* **Turns @ Point**
* **Pilotage / DR Nav**
* **Nav Sys’s & Radar Svc’s**
* **Diversion**
* **Lost Procedures**
* **Slow Flight**
* **Power Off Stall**
* **Power On Stall**
* **Spin Awareness**
* **(IR) S&L**
* **(IR) Const ASI Climb**
* **(IR) Turn to Heading**
* **(IR) UA Recovery**
* **Emerg Descent**
* **Emerg App & LDG**
* **Systems & Equip Malf’s**
* **Emerg & Survival Gear**
* **Night Prep**
* **Aft LDG Taxi/Park/Post**

**Lesson #31F: PRE-CHECKRIDE PROGRESS CHECK (1.6)**

**Recommend 0.3 IR**

**ACS Standards**

* **ACS Standards**
* **SRM**
* **RM**
* **ADM**
* **Task Mgt**
* **SA**
* **CFIT**
* **Pos Exchng of Flt Ctls**
* **Wake Trub Avoidance**
* **LAHSO**
* **Rwy Incursion**
* **Cert’s & Documents**
* **Airworthiness Req’s**
* **Weather**
* **X-Country Flt Planning**
* **NAS**
* **Perf & Limitations**
* **Operations of Systems**
* **Aeromedical Factors**
* **Preflight Inspection**
* **Cockpit Mgt**
* **Engine Start**
* **Taxiing**
* **Before T/O Checks**
* **Radio Comms & Light Signals**
* **Traffic Patterns**
* **Signs, Markings, Lighting**
* **Norm T/O & Climb**
* **Norm App & LDG**
* **X-Wind T/O & Climb**
* **X-Wind App & LDG**
* **Soft T/O & Climb**
* **Soft App & LDG**
* **Short T/O & Climb**
* **Short App & LDG**
* **Steep Turns**
* **Fwd Slip to LDG**
* **TOGA**
* **Steep Turns**
* **Rectangular Course**
* **S Turns (ACS)**
* **Turns @ Point**
* **Pilotage & DR Nav**
* **Nav Sys’s & Radar Svc’s**
* **Diversion**
* **Lost Procedures**
* **Slow Flight**
* **Power Off Stall**
* **Power On Stall**
* **Spin Aware**
* **(IR) S&L**
* **(IR) Const ASI Climb**
* **(IR) Turn to Heading**
* **(IR) UA Recovery**
* **Emergency Descent**
* **Emergency App & LDG**
* **Systems & Equip Malf’s**
* **Emerg & Survival Gear**
* **Night Prep**
* **Aft LDG Taxi/Park/Post**