

14 CFR PART 61 · PRIVATE PILOT

PHASE 2: DUAL XC, INSTRUMENTS & NIGHT

Lessons 12 through 16 | Knowledge and flight skills checklist

Student

Start date

Aircraft: PA-28-151 Warrior, N41459

Airport: KSNS

ACS: FAA-S-ACS-6C (Nov 2023)

Source: Curriculum 5.1, Lessons 12-16

GROUND KNOWLEDGE

CROSS-COUNTRY PLANNING AND NAVIGATION

☐	Nav log preparation: checkpoints, courses, headings, groundspeed, time enroute	PA.I.D / 61.93(e)(1)	L13-14
☐	Plotting the course on the sectional: true course, variation, deviation, compass heading	PA.I.D	L13-14
☐	E6B/CX3 calculations: wind correction, groundspeed, time, and fuel	PA.I.D	L13-14
☐	Fuel planning: burn rate, totals, and in-flight fuel management	61.93(e)(5)	L13-14
☐	Sectional chart symbology along the planned route	PA.I.D	L13-14
☐	Chart Supplement: airport data, frequencies, and runway information for unfamiliar airports	PA.I.D	L13-14
☐	Selecting visual checkpoints for pilotage; dead reckoning principles	PA.VI.A	L13-14
☐	VOR/GPS navigation and course tracking principles	PA.VI.B	L13-14
☐	Lost procedures: steps when position is uncertain	PA.VI.D / 61.93(e)(12)	L14
☐	Diversion planning: selecting an alternate, estimating course and time	PA.VI.C	L14

Instructor initials

Date

PERFORMANCE AND WEIGHT AND BALANCE

☐	Weight and balance computation for cross-country loading	PA.I.F	L13-14
☐	CG limits and effects of loading within the envelope	PA.I.F	L13-14
☐	Density altitude effects on takeoff, climb, and landing performance	PA.I.F	L12-15
☐	Takeoff and landing distance from POH performance charts (short/soft field)	PA.I.F	L12, L15
☐	Maximum performance climb: VX vs. VY application	PA.IV.E	L12, L15

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Date

WEATHER SERVICES AND GO/NO-GO

☐	Obtaining a briefing: Flight Service (1-800-WX-BRIEF), aviationweather.gov, EFB apps	PA.I.C	L13-14
☐	METAR/SPECI: decoding observations, sky cover, ceiling, visibility	PA.I.C	L13-14
☐	TAF: decoding forecasts and change groups	PA.I.C	L13-14
☐	AIRMETs (Sierra, Tango, Zulu) and G-AIRMET	PA.I.C	L13-14
☐	SIGMETs and Convective SIGMETs	PA.I.C	L13-14
☐	PIREPs: reading and filing	PA.I.C	L13-14
☐	Winds and temperatures aloft forecast (FB): decoding	PA.I.C	L13-14
☐	Graphical Forecasts for Aviation (GFA) and prognostic charts	PA.I.C	L13-14
☐	Flight categories: VFR, MVFR, IFR, LIFR	PA.I.C	L13-14
☐	NOTAM review: types and sources	61.93(e)(2)	L13-14
☐	Weather self-brief sequence: big picture down to airport specifics	PA.I.C	L13-14
☐	Personal minimums and the go/no-go decision (PAVE applied to XC)	PA.I.H	L13-16

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Date

AIRSPACE APPLIED

☐	Airspace classes review: dimensions, entry, and equipment requirements	PA.I.E.K1	L13-14
☐	VFR weather minimums (91.155) applied along the planned route	PA.I.E.K2	L13-14
☐	Special VFR (91.157): decision framework	PA.I.E.K3	L13-14
☐	Identifying airspace boundaries on the sectional enroute	PA.I.E / 61.93(e)(6)	L13-14
☐	Monterey Class C: equipment and communication requirements	PA.I.E	L13-14
☐	TFRs and special use airspace along the route	PA.I.E	L13-14

Instructor initials

Date

NIGHT OPERATIONS

☐	Night flying rules and requirements	PA.XI.A	L16
☐	Night vision physiology and dark adaptation	PA.XI.A	L16
☐	Night visual illusions: recognition and countermeasures	PA.XI.A	L16
☐	Aircraft lighting requirements and cockpit lighting setup	PA.XI.A	L16
☐	Night preflight additions: flashlight (red lens), spare batteries, lighting check	PA.II.A	L16
☐	Night emergency considerations	PA.IX.C	L16

Instructor initials

Date

CROSS-COUNTRY EMERGENCIES AND SURVIVAL EQUIPMENT

☐	Emergency equipment and survival gear appropriate to the route	PA.IX.D / 61.93(e)(10)(11)	L15
☐	Emergency descent procedure	PA.IX.A	L15
☐	Systems and equipment malfunctions on cross-country	PA.IX.C	L15
☐	POH emergency procedures section review	PA.IX.C	L15

Instructor initials

Date

PILOT QUALIFICATIONS

☐	Private pilot certification requirements, privileges, and limitations	PA.I.A	Pre-Phase 3
☐	Medical certificate classes and BasicMed review	PA.I.A	Pre-Phase 3
☐	Logbook and endorsement requirements for cross-country training	PA.I.A / 61.93	Pre-Phase 3

Instructor initials

Date

PHASE 2 CUMULATIVE REVIEW

☐	Self-assessment: identify least-confident topic from Phase 2 ground areas		Pre-Phase 3
☐	Cumulative quiz covering all Phase 2 ground knowledge areas		Pre-Phase 3
☐	Integrating scenario: plan a full XC with weather, airspace, and performance decisions		Pre-Phase 3
☐	Cumulative review: 61.93(e) dual cross-country training items	61.93(e)	Pre-Phase 3

Instructor initials

Date

FLIGHT SKILLS

ACS tolerances: heading +/-10 deg, altitude +/-100 ft, airspeed +/-10 kts, bank +/-5 deg in turns

CROSS-COUNTRY PLANNING AND PREFLIGHT

☐	Cross-country flight planning: nav log, W&B, fuel	PA.I.D / I.F / 61.93(e)(1)	L13-14
☐	Weather briefing and NOTAM review	PA.I.C / 61.93(e)(2)	L13-14
☐	Preflight discussion, student directs	PA.I.H	L12

☐	Preflight inspection (including emergency equipment location)	PA.II.A	L12-16
☐	Engine start and taxi	PA.II.C / II.D	L12-16
☐	Pre-takeoff check	PA.II.F	L12-16
☐	Radio communications	PA.III.A	L12-16
Instructor initials Date			

NAVIGATION AND CROSS-COUNTRY

☐	Pilotage and dead reckoning: checkpoint tracking	PA.VI.A / 61.93(e)(3)	L13-14
☐	VOR/GPS navigation, course tracking and corrections	PA.VI.B / 61.93(e)(4)	L13-14
☐	Airspace identification and transitions enroute	PA.I.E / 61.93(e)(6)	L13-14
☐	Fuel management checks enroute	61.93(e)(5)	L13-14
☐	Unfamiliar airport entry and landing	PA.IV.B / 61.93(e)(8)	L13-14
☐	Departure from unfamiliar airport	PA.IV.A / 61.93(e)(9)	L13-14
☐	Simulated lost procedure	PA.VI.D / 61.93(e)(12)	L14
☐	Diversion practice (simulated weather)	PA.VI.C	L14
☐	Return leg navigation	PA.VI.A / VI.B	L13-14
Instructor initials Date			

RADAR SERVICES AND ATC COMMUNICATIONS

☐	Request flight following on departure	PA.VIII.F / 61.93(e)(7)	L12-14
☐	ATC communications: frequency changes and handoffs	PA.III.A / 61.93(e)(7)	L13-14
☐	Radar services used for the entire flight	PA.VIII.F	L12, L14
Instructor initials Date			

BASIC INSTRUMENT MANEUVERS (HOOD WORK)

☐	Straight-and-level flight by reference to instruments	PA.VIII.A	L12
☐	Constant airspeed climbs	PA.VIII.B	L12
☐	Constant airspeed descents	PA.VIII.C	L12
☐	Turns to headings using the magnetic compass	PA.VIII.D	L12
☐	Recovery from unusual flight attitudes	PA.VIII.E	L12
Instructor initials Date			

PERFORMANCE TAKEOFFS AND LANDINGS

☐	Short-field takeoff and maximum performance climb	PA.IV.E	L12, L15
☐	Short-field approach and landing	PA.IV.F	L12, L15
☐	Soft-field takeoff and climb	PA.IV.C	L15
☐	Soft-field approach and landing	PA.IV.D	L15
☐	Forward slip to a landing	PA.IV.M	L12, L15
☐	Go-around at an unfamiliar airport	PA.IV.N	L14
☐	Normal approach and landing	PA.IV.B	L12-16
Instructor initials Date			

EMERGENCY OPERATIONS

☐	Emergency descent to ACS standard	PA.IX.A	L15
☐	Emergency approach and landing (simulated)	PA.IX.B	L15
☐	Systems and equipment malfunctions (XC scenarios)	PA.IX.C	L15

☐	Emergency equipment and survival gear review	PA.IX.D	L15
☐	Night emergency procedures discussion	PA.IX.C	L16
	Instructor initials	Date	

NIGHT OPERATIONS

☐	Night preflight inspection: flashlight and lighting check	PA.II.A / XI.A	L16
☐	Engine start with cockpit lighting setup	PA.II.C	L16
☐	Night taxi procedures	PA.II.D	L16
☐	Night takeoff and departure	PA.IV.A / XI.A	L16
☐	Local area familiarization at night: visual references	PA.XI.A	L16
☐	Night traffic pattern operations	PA.III.B / XI.A	L16
☐	Night normal approach and landing (multiple)	PA.IV.B / XI.A	L16
☐	Night go-around	PA.IV.N	L16
☐	Steep turns at night	PA.V.A	L16
☐	Solo night takeoffs and landings (minimum 3)	PA.IV.A / IV.B / XI.A	L16
	Instructor initials	Date	

MANEUVER REVIEW AND POSTFLIGHT

☐	Steep turns review	PA.V.A	L15
☐	Slow flight review	PA.VII.A	L15
☐	After landing, parking, and securing	PA.XII.A	L16
☐	Postflight discussion and debrief		L16
	Instructor initials	Date	

READY FOR PHASE 3 (CHECKPOINT)

☐	Cross-country planning to standard: nav log, W&B, fuel, weather, NOTAMs	PA.I.C / I.D / I.F	
☐	Weather briefing obtained and go/no-go decision made independently	PA.I.C / I.H	
☐	Pilotage, dead reckoning, and VOR/GPS navigation to XC standard	PA.VI.A / VI.B	
☐	Diversion and lost-procedures decision-making demonstrated	PA.VI.C / VI.D	
☐	All 61.93(e) dual cross-country training items introduced and logged	61.93(e)	
☐	Flight following requested and used; ATC handoffs handled	PA.VIII.F	
☐	Short-field and soft-field takeoffs and landings to near-ACS standard	PA.IV.C-F	
☐	Forward slip to a landing demonstrated	PA.IV.M	
☐	Emergency descent and simulated emergency approach to standard	PA.IX.A / IX.B	
☐	Instrument (hood) work: S&L, climbs, descents, compass turns, unusual-attitude recovery	PA.VIII.A-E	
☐	Night operations: preflight, takeoffs, pattern, landings; 3+ solo night landings logged	PA.XI.A	
☐	All Phase 2 ground knowledge areas completed and reviewed		

Student ready for Phase 3: ☐ Yes ☐ No

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