

Coral Breeze Aviation



PRIVATE PILOT LICENSE (PPL) TRAINING HANDBOOK

Flight • Ground • ACS • Systems • Performance • NTSB • Oral Prep • Endorsements

Student Name: _____

Phone / Email: _____

Instructor: _____

Start Date: _____



SECTION 1 – FAA PRIVATE PILOT REQUIREMENTS

- Minimum age: 17 for PPL; 16 for solo.
- Total flight time: 40 hrs minimum required by FAA.
- Dual instruction: 20 hrs minimum.
- Solo flight: 10 hrs minimum.
- Instrument training: 3 hrs required.
- Night training: 3 hrs incl. 100 NM night XC + 10 full-stop landings.
- Solo cross-country: 5 hrs incl. 150 NM XC with 3 landings.
- Recency: 3 hrs dual within last 2 calendar months.
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- **DISCLAIMER:** These are FAA-required minimum hours. You may require additional time based on your learning pace.

SECTION 2 – REQUIRED EQUIPMENT (DAY & NIGHT VFR)

DAY VFR – ATOMATOFLAMES

- Altimeter
- Tachometer
- Oil pressure
- Manifold pressure
- Airspeed
- Temp gauge
- Oil temp
- Fuel gauge
- Landing gear indicator
- Anti-collision lights
- Compass
- ELT
- Seat belts

NIGHT VFR – FLAPS

- Fuses
- Landing light
- Anti-collision lights
- Position lights
- Electrical power source

SECTION 3 – FLIGHT TRAINING SYLLABUS

PHASE 1 – BASIC FLIGHT (8–12 hrs)

- Straight & level
- Slow flight
- Stalls
- Basic instrument flying

PHASE 2 – TAKEOFFS & LANDINGS (10–12 hrs)

- Normal/short/soft
- Slips
- Go-arounds

PHASE 3 – MANEUVERS & SOLO (8–12 hrs)

- Steep turns
- Ground reference
- Emergency descent
- Unusual attitudes

PHASE 4 – CROSS-COUNTRY (10–15 hrs)

- Pilotage & DR
- GPS & VOR
- Weather briefings
- 150 NM solo XC

PHASE 5 – NIGHT TRAINING (3+ hrs + landings)

- Night illusions
- Airport lighting
- Night emergencies
- Night XC ≥100 NM

PHASE 6 – CHECKRIDE PREP (5–8 hrs)

- Mock oral
- Mock flight
- ACS review



SECTION 4 – GROUND TRAINING SYLLABUS

Lesson 1 – Regulations (1.5 hrs)

- Pilot privileges
- Medical requirements
- ARROW
- Inspections

Lesson 2 – Weather Theory (2 hrs)

- Fronts
- Air masses
- Thunderstorms
- Fog

Lesson 3 – Weather Interpretation (2 hrs)

- METAR
- TAF
- AIRMET/SIGMET
- Charts

Lesson 4 – Emergencies (1.5 hrs)

- Engine failures
- Fire
- Lost comms
- Unusual attitudes

Lesson 5 – Airport Operations (1 hr)

- Runway markings
- Lighting
- Patterns

Lesson 6 – Aircraft Systems (2 hrs)

- Engine
- Electrical
- Fuel
- Gyro & pitot-static

Lesson 7 – Aircraft Performance & Flight Principles (2 hrs)

- Standard atmosphere & density altitude
- Altitudes: indicated, pressure, density, true, absolute
- Compass errors: ANDS, UNOS, magnetic dip
- Lift / weight / thrust / drag



- Parasite & induced drag
- Axes of aircraft
- Left-turning tendencies
- Aircraft categories, classes, and types

AIRSPACE WEATHER MINIMUMS & ENTRY REQUIREMENTS

Class A

- Weather Min: IFR only
- Entry: IFR flight plan, ATC clearance, instrument rating

Class B

- 3 SM visibility, clear of clouds
- Entry: ATC clearance, Mode C, two-way radio

Class C

- 3 SM, 500 below, 1000 above, 2000 horizontal
- Entry: Two-way radio, Mode C

Class D

- 3 SM, 500 below, 1000 above, 2000 horizontal
- Entry: Two-way radio

Class E <10,000 MSL

- 3 SM, 500 below, 1000 above, 2000 horizontal
- Entry: None (VFR)

Class E >10,000 MSL

- 5 SM, 1000 above, 1000 below, 1 SM horizontal

Class G Day <1200 AGL

- 1 SM, clear of clouds

Class G Night <1200 AGL

- 3 SM, 500 below, 1000 above, 2000 horizontal

Class G >1200 AGL

- 1 SM day, 3 SM night, cloud clearances apply



SECTION 5 – NTSB 830 REPORTING REQUIREMENTS

- Immediate notification: control failures, fire, crew inability, midair collision, overdue aircraft.
- Accident: substantial damage or serious injury.
- Serious injury: >48 hrs hospital, fractures, major bleeding, nerve damage.
- 10-day written report required.

SECTION 6 – AVIATION ACRONYMS

IMSAFE: Illness, Medication, Stress, Alcohol, Fatigue, Emotion

PAVE: Pilot, Aircraft, enVironment, External pressures

DECIDE: Detect, Estimate, Choose, Identify, Do, Evaluate

ARROW: Airworthiness, Registration, Radio license, Operating limits, W&B;

NWKRAFT: NOTAMs, Weather, Known delays, Runway length, Alternatives, Fuel, Takeoff dist



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Aviation

SECTION 7 – CHECKRIDE ORAL EXAM PREP

Airworthiness

- ARROW
- AV1ATE
- 91.205 equipment

Weight & Balance

- CG effects
- Fuel burn
- W&B; chart usage

Weather

- METAR/TAF
- AIRMET/SIGMET
- Fog

Airspace

- Class A–G description
- SUA & TFR procedures
- Weather minimums (detailed above)
- Entry requirements (detailed above)

Systems

- Ignition
- Electrical
- Pitot-static

Emergencies

- Engine failure
- Fire
- Lost comms
- Unusual attitudes

Navigation

- VOR operation
- GPS RAIM
- Diversion

Regulations

- Fuel mins



- Right-of-way
- Alcohol
- VFR equipment

SECTION 8 – FAA ENDORSEMENTS (CUT-OUT FORMAT)

TSA Verification

Student: _____
CFI: _____
Date: _____

61.87(b) Pre-Solo Knowledge

Student: _____
CFI: _____
Date: _____

61.87(c) Pre-Solo Training

Student: _____
CFI: _____
Date: _____

61.87(n) Initial Solo

Student: _____
CFI: _____
Date: _____

61.87(p) 90-Day Solo

Student: _____
CFI: _____
Date: _____

61.93(b)(1) Solo at Another Airport

Student: _____
CFI: _____
Date: _____

61.93(e) Solo XC Training

Student: _____
CFI: _____



Date: _____

61.93(c) Solo XC Review

Student: _____
CFI: _____
Date: _____

61.39 Knowledge Test

Student: _____
CFI: _____
Date: _____

61.103/107/109 Practical Test

Student: _____
CFI: _____
Date: _____
