

## Proficiency Syllabus for PA-28-181

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Taken from Richard Taylor's "Are You Ready for Anything? 19 Proficiency-Building Exercises for VFR and IFR", Belvoir Publications, 75 Holly Hill Lane, Greenwich, CT 06836-2626, ISBN 1-8879620-61-8.

Refer also to:

- Pilot's Operating Handbook for the 1977 Piper Archer II, PA-28-181, Piper Aircraft Co.
- "Airplane Flying Handbook", FAA-H-8083-0.
- "Private Pilot Practical Test Standards", FAA.
- "Instrument Pilot Practical Test Standards", FAA.
- "Commercial Pilot Practical Test Standards", FAA.
- AC 91-73, Taxi Procedures, FAA.

Each week's lesson consists of:

- A briefing and review of selected aircraft systems, using the POH as a guide, covering especially specifications, operating limitations, systems description and maintenance concerns -- 30 minutes
- A briefing over the maneuvers to be performed, using the FAA references cited above -- 30 minutes
- A flight lesson over the maneuvers to be performed -- 1 hour

Lessons are marked "VR" for visual reference lessons and "IR" for instrument reference lessons. IR lessons will be conducted in actual IMC, if available.

Maneuvers marked "(FP, PP)" are to be practiced using both full panel and partial panel.

Normal procedures, emergency procedures, and abnormal procedures will all be practiced. Simulated emergencies are fair game during any flight lesson, VR or IR. Emphasis will be placed on calling for a situation's checklist, executing it, and affirming checklist completion.

### **Week 1: VR**

**POH Review:** none

**Maneuvers:** short field takeoffs and landings, soft field takeoffs and landings, crosswind landings, downwind landings

### **Week 2: VR**

**POH Review:** Airframe (including maximum weights, specific loadings, and other limitations), cabin, baggage area, heating and ventilation systems, landing gear, ELT

**Maneuvers:** Slow flight, approach to landing stalls, departure stalls

### **Week 3: VR**

**POH Review:** Engine and propeller, engine controls, fuel system

**Maneuvers:** S-turns across a road, turns about a point, simulated engine failure

### **Week 4: VR**

**POH Review:** Electrical system, external power

**Maneuvers:** Chandelle, lazy eight

### **Week 5: IR**

**POH Review:** Flight controls, electric pitch trim, pitot-static system, alternate static

**Maneuvers:** Zero-zero takeoff, straight and level (FP, PP), standard rate turns (FP, PP), steep turns

**Week 6: IR**

**POH Review:** Vacuum system, standby vacuum system, instruments

**Maneuvers:** Vertical S-A (FP, PP), vertical S-B (FP, PP)

**Week 7: IR**

**POH Review:** Avionics, autopilot

**Maneuvers:** Vertical S-C (FP, PP), vertical S-D (FP, PP)

**Week 8: IR**

**POH Review:** none planned - use as makeup session if needed

**Maneuvers:** IFR proficiency pattern (FP, PP), unusual attitudes (FP, PP)