



# TCA Group Ground School Workshop

2-week course | April 9, 2018 version

\$350 registration fee for 16 hours instructional time

## Summary

TCA's Group Ground School workshops consist of a comprehensive survey of items necessary to pass the FAA's Private Pilot Knowledge Test and oral portion of the check ride. Items covered include pilot certification requirements specified in FAR Part 61, general operating rules in FAR Part 91, Aeronautical Decision Making (ADM), aerodynamics of flight, principles of operation of aircraft systems and instruments, weather and aviation weather products, aircraft performance, airspace, flight planning and navigation using both charts and radio aids to navigation. Upon successful completion of the course, students will understand the fundamentals of safe flight planning and be prepared for the FAA Private Pilot Knowledge Test. Required materials

- TCA Ground School Workbook (Included)
- Pilot's Handbook of Aeronautical Knowledge
- E6-B Flight Computer
- Plotter
- Current FAR/AIM (2018)
- Current Houston Sectional Chart
- Airplane Flying Handbook

If you do not have these materials, a complete private pilot training kit may be purchased for \$300.00 or you may opt to purchase a Private Pilot Ground School kit for \$75.00.

## Details

The 2-week course is available to begin every third Tuesday of the month, with a minimum participation level of three students. For confirmation of a seat in the course, \$350 must be paid at time of registration. Progress checks will be given throughout the course based on the modules being worked on.

Requirements for endorsement is that student successfully completed all stage checks prior to the final Instructor exam with a score of 90 or higher. Students allowed to retake any session one time during another normally scheduled course with available seats. After a second attempt within any stage check, one-on-one training with a CFI is available at \$55.00 per hour.



## 2-Week Course Agenda

- Tuesday – Session 1 (5:00 P.M. – 7:00 P.M.) – 2 Hours
  - ◆ Introduction, Purpose of the course
  - FAR Part 61 certification requirements overview. (PHAK, Chapter 1, FAR. Part 61, overview of Aeronautical Decision-Making (ADM). (PHAK, Chapter 2), Aeromedical
  
- Thursday – Session 2 (5:00 P.M. – 7:00 P.M.) – 2 Hours
  - ◆ General Operating and Flight Rules
  - FAR Part 91, Airport Operations (PHAK, Chapter 14), Airspace (PHAK, Chapter 15)
  
- Friday – Session 3 (4:00 P.M. – 6:00 P.M.) – 2 Hours
  - ◆ Basic Aerodynamics (PHAK, Chapters 4, 5, 6)
  - Bernoulli's Theorem, Newton's Laws, Principles of Flight, Wing and Aircraft Design, Flight Controls
  
- Saturday – Session 4 (4:00 P.M. – 6:00 P.M.) – 2 Hours
  - ◆ Aircraft Systems (PHAK, Chapter 7)
  - Engines, Electrical Systems, Fuel Systems, Other Aircraft Systems (e.g. propellers, electrical, etc....)
  - ◆ Flight Instruments (PHAK, Chapter 8)
  - Principles of Operation and Construction
  
- Tuesday – Session 5 (5:00 P.M. – 7:00 P.M.) – 2 Hours
  - ◆ Aviation Weather Basics (PHAK, Chapter 12)
  - ◆ Aviation Weather Services (PHAK, Chapter 13)
  
- Thursday – Session 6 (5:00 P.M. – 7:00 P.M.) – 2 Hours
  - ◆ Aircraft Performance (PHAK, Chapter 11)
  - Weight and Balance (PHAK, Chapter 10), Performance, Density Altitude
  
- Friday – Session 7 (4:00 P.M. – 6:00 P.M.) – 2 Hours
  - ◆ Flight Planning (PHAK, Chapter 15)
  - VFR Navigation, Sectional Charts and Publications, Radio Aids
  
- Saturday Session 8 (4:00 P.M. – 6:00 P.M.) – 2 Hours
  - ◆ CAPSTONE – Putting it all together