



SPORT PILOT TRAINING SYLLABUS

LESSON 3B: Traffic pattern, medium bank turns, engine overheat on climb out.

TIME: 1 hour ground instruction and 1-2 hours flight instruction

OBJECTIVE: Teach the traffic pattern. Introduce the student to medium bank turns with 30 degrees of bank. Explain how to identify an overheat situation on climb out and make the necessary corrections. **STRESS THE IMPORTANCE OF LOWERING THE NOSE IN THE TURN FROM BASE TO FINAL. THE HIGHER THE DEGREE OF BANK, THE MORE THE PILOT MUST LOWER THE NOSE IN THE TURN.** Explain accelerated stalls. Explain the tendency to overshoot the turn from base to final with a left crosswind as the ground speed is higher on base due to the tail wind. (Explain Coffin Corner). This is the most likely place to experience an accelerated stall and therefore requires a go-around if you find yourself there.

HOME STUDY: (PHAK) Chapters 8 Bristell Checkout Quiz

Review lesson items: Re-trim plane for every attitude change. Normal climb attitude and 75 KIAS. Hot days will require 90 KIAS climb speed. How to use the GPS to get back to your home airport.

YOU MUST LOWER THE NOSE DURING THE TURN FROM BASE TO FINAL. THE GREATER THE DEGREE OF BANK TO MORE IMPORTANT IT IS TO LOWER THE NOSE IN THIS TURN.

New lesson items: Awareness of possible engine overheat on hot summer days and how to lower engine temperatures by lowering the nose for more airflow and reducing power by two hundred RPM. Traffic pattern performed at 1600 feet (500 feet above the normal traffic pattern altitude). Compass headings for the traffic pattern for all runways. How to use slips, S-turns, and mushing to lose altitude. 30 degree bank turns. Explain accelerated stalls and spins and when the pilot is most likely to encounter an accelerated stall. Discuss the importance of dissipating your energy while close to the ground and have most of the energy gone prior to touchdown.

COMPLETION STANDARDS: The lesson is completed when the student has a basic understanding of the traffic pattern and can maintain altitude within 200 feet and airspeed +/- 20 kts in the traffic pattern.