



SPORT PILOT TRAINING SYLLABUS

LESSON 4: GPA, Ground Proximity Awareness Training

TIME: 1 hour ground instruction and 1 hour simulator and 1 hour flight instruction

OBJECTIVE: To introduce the student to flying close to the ground until their finger nails pink up as a sign that they are beginning to relax. Once they relax their brain will work properly. Teach a proper go-around.

HOME STUDY: Pilot's Handbook of Aeronautical Knowledge (**PHAK**) Chapters 15 & 16 AFH Chapters 6 & 7 Bristell checkout quiz

Review lesson items: Traffic pattern, slips, S-turns, mushing, steep turns, The Proper Takeoff.

New lesson items: Precise traffic pattern: reduce power to 4000 RPM on downwind and slow to V_{fe}, flap extend speed of 75 KIAS and add 20 degrees of flap. Abeam the number, reduce power to 3800 RPM and re-trim the aircraft for an attitude that will produce 70 KIAS. When the runway number appear between the wing and the tail reduce power to 3600 RPM, re-trim and turn onto base leg. Turn onto final approach when appropriate with consideration for the wind. Reduce power to 3400 RPM and aim for a spot 200 feet beyond the numbers. Re-trim the aircraft. Maintain a nose down attitude to keep up inertia. A speed of 61 KIAS +5/-0 is the standard. Use power to control the airspeed. If speed exceeds 61 kts, reduce power, if speed is slower than 61 kts, add power. At 400 feet AGL, the pilot should no longer slip, S-turn, mush, or change his flap setting. At 200 the pilot must be lined up with the centerline at 61 KIAS +5/-0 and if not-go around. This is DFGAP, the defined go around point. Continue the power on descent at 61 KIAS with 20 degrees of flap until reaching a height of 10 feet and then fly level down the runway until there is 2000 feet remaining and go around. The go-around is full throttle, level flight until reaching V_y 65 KIAS +10 -0. At 300' AGL reduce flaps to 10 degrees. At 400' AGL reduce flaps to zero.

COMPLETION STANDARDS: The lesson is completed when the student can fly relaxed at 10 feet over the runway. The student needs to have been given and discuss the Bristell checkout Quiz.