

Pre-Maneuver

- 1) Clearing Turns 2x 90°
- 2) Altitude Adequate
- 3) Fuel Both
- 4) Mixture Set
- 5) Carb Heat Off In Green Arc

Slow Flight

- 1) Clearing turn at or above 1500 feet AGL
- 2) Power to 1500 • flaps 10° in white arc
- 3) Increase pitch to maintain ALT as airspeed decreases
- 4) Extend full flaps (in white arc)
- 5) (60mph/ 50kts) increase power to maintain level ft
- 6) TRIM
- 7) Perform straight and level, and turns (20° or less)
- 8) Pitch Airspeed- Power Altitude

Recovery

- 9) Apply full power, flaps 20°, pitch level flight
- 10) Retract flaps to 10° accelerating through (63/55)
- 11) Retract flaps to 0° accelerating through (70/60)- TRIM
- 12) Accelerate to normal cruise

Power Off Stall (Landing Stall)

- 1) Clearing turn at or above 1500 feet AGL
- 2) Reduce Power to 1500 RPM
- 3) Extend 30° flaps in white arc
- 4) Establish (80mph/70kt) descent
- 5) Power to idle
- 6) Apply back pressure to maintain altitude
- 7) Announce “stall” when stall occurs

Recovery

- 8) Reduce pitch, full power, wings level with coordinated rudder and aileron
- 9) Retract flaps to 20° establish climb pitch attitude
- 10) Retract flaps to 10° accelerating through (63/55)
- 11) Retract flaps to 0° accelerating through (70/60)
- 12) Stabilize climb out at Vy (80mph/70kts)- TRIM

Power On Stall (Departure Stall)

- 1) Clearing turn at or above 1500 feet AGL
- 2) Slow to (65mph/ 56kts) level flight
- 3) Add power to 2200 rpm
- 4) Smoothly increase the pitch to induce stall.
- 5) Announce “stall” when stall occurs

Recovery

- 6) Full power, reduce pitch
- 7) Wings level with coordinated rudder and aileron
- 8) Establish Vy pitch attitude
- 9) Stabilize climb out at Vy (80mph/70kts)- TRIM

Steep Turns

- 1) Note heading (outside reference point) and altitude
- 2) Establish airspeed at (~110mph/ 95 kts)
- 3) Roll into a 45° bank turn
- 4) Back pressure and power to maintain altitude and airspeed
- 5) Continuous scan (out front, altimeter, AS indicator)
- 6) Lead rollout for heading by 20°
- 7) Reduce power and pitch as necessary to maintain altitude and airspeed

V Speeds (MPH/Kts)

Vso: 49/43

Vs1: 57/50

Vr: 65/56

Vx: 65/56

Vy: 80/70

B Glide: 80/70

Vfe: 100/87

Va: 122/106

Vno: 140/122

Vne: 174/151

Max X-wind: 15kts

Turns Around a Point

- 1) Clearing turn, 600'-1,000' AGL
- 2) Enter downwind at (~110mph/ 95 kts)
- 3) When point is under wing, begin left turn of approx. 30° (steepest bank)
- 4) Two circuits Alt +/-100' A/S +10 Kts. Hdg. +10°

S Turns

- 1) Clearing turns, 600'-1,000' AGL
- 2) Enter downwind trimmed at (~110mph/ 95 kts)
- 3) When reference line is under wing, roll into left turn (steepest bank)
- 4) As you turn past the 90° point, reduce bank to track a symm. Half circle
- 5) Cross the 180° point with wings level and parallel with reference line
- 6) Repeat 1-4 but in a right turn.
- 7) Altitude +100' A/S +10 Kts.

Short Field Takeoff (0° Flaps)

- 1) Taxi onto runway centerline (use all available runway)
- 2) Hold brakes
- 3) Apply full power
- 4) Release brakes
- 5) Announce (engine instruments in green)
- 6) Announce “airspeed alive”
- 7) Accelerate to Vx (65/56) and rotate
- 8) Climb at Vx (65/56) until obstacle is cleared
- 9) Announce “obstacles cleared” pitch for Vy (80/70)

Short Field Landing (30° Flaps)

- 1) Select runway touchdown point
- 2) Abeam touchdown point (power 1700rpm, 10° flaps)
- 3) Pitch for (80mph/ 70kts).
- 4) When touchdown point is 45° off shoulder turn base
- 5) Apply 20° flaps and pitch for (75mph/ 65kts).
- 6) Turn final, extend 30° flaps, pitch for (70mph/ 60kts).
- 7) Smoothly reduce power so as to land on the selected point on the runway +200 feet
- 8) Upon landing, simulate max braking

Soft Field Takeoff (10° Flaps)

- 1) Taxi onto runway centerline with yoke full aft
- 2) No brakes, keep rolling and smoothly apply full power
- 3) Announce (engine instruments checked)
- 4) Reduce back pressure to allow nose wheel to remain off ground
- 5) Announce “airspeed alive”
- 6) When airborne, lower nose in order to remain in ground effect
- 7) Accelerate to Vx (65mph/ 56kts).
- 8) Retract flaps
- 9) Continue climb at Vy (80mph/ 70kts).

Soft Field Landing (30° Flaps)

- 1) Abeam touchdown point (power 1700rpm, 10° flaps)
- 2) Pitch for (80mph/ 70kts).
- 3) When touchdown point is 45° off shoulder turn base
- 4) Extend 20° flaps and pitch for (75mph/ 65kts).
- 5) Turn final, extend 30° flaps, and pitch (70mph/ 60kts).
- 6) Approaching touchdown, begin flare, using power to minimize sink rate and touchdown as gently as possible
- 7) Apply full back pressure on yoke to keep weight off nosewheel. Aerodynamic braking only