POWER-OFF 180° ACCURACY APPROACH AND LANDING

OBJECTIVE

To teach the commercial student the knowledge of the elements related to a power-off 180° accuracy approach and landing.

COMPLETION STANDARDS

- 1. Considers the wind conditions, landing surface and obstructions, and selects an appropriate touchdown point.
- 2. Positions airplane on downwind leg, parallel to landing runway, and not more than 1000 feet AGL.
- 3. Abeam the specified touchdown point, closes throttle and establishes appropriate glide speed.
- 4. Completes final airplane configuration.
- 5. Touches down in an normal landing attitude, at or within 200 feet (60 meters) beyond the specified touchdown point.
- 6. Completes the appropriate checklist.

DESCRIPTION

A 180° power off is a maneuver to practice approach and landing accuracy with the engine at idle while simulating an engine failure.

PROCEDURE

- 1. Determine a suitable touchdown point.
- 2. Maneuver the airplane to the downwind key position, a position abeam the landing point, at the normal traffic pattern altitude appropriate to the landing site. (1000 to 1200 feet above ground.)
- 3. When abeam the landing point, carburetor heat on.
- 4. Throttle to idle.
- 5. Maintain altitude and slow to recommended glide speed or 1.4 $\rm V_{S0}$.
- 6. Turn base at the appropriate position to maintain proper glide path to reach desired landing point.
- 7. Lower landing gear at appropriate altitude.

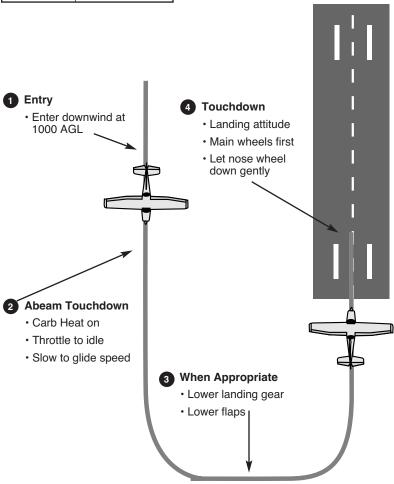
- 8. At a point when a safe landing is assured, begin to lower flaps as required. Normally, lower partial flaps on base and then final flaps when on final and landing is assured.
- 9. Adjust base and/or slip the airplane on final to assure a safe landing at the selected point of touchdown.
- 10. Execute normal/crosswind landing and roll out.

References

Commercial Pilot Practical Test Standards FAA-S-8081-12B, pg. 1-21. Airplane Flying Handbook FAA-H-8083-3, pg. 8-23, 8-24.

POWER-OFF 180° ACCURACY APPROACH AND LANDING

AIRCRAFT	SPEED
C172	65



Limitations — Lands within 200 feet of specified point.

GO-AROUND/REJECTED LANDING

OBJECTIVE

To teach the commercial student the knowledge of the elements related to a go-around/rejected landing.

COMPLETION STANDARDS

- 1. Makes a timely decision to discontinue the approach to landing.
- 2. Applies takeoff power immediately and transitions to the climb pitch attitude for V_Y and maintains $V_Y \pm 5$ knots.
- 3. Retracts the flaps as appropriate.
- 4. Retracts the landing gear if appropriate after a positive rate of climb has been established.
- 5. Maneuvers to the side of the runway/landing area to clear and avoid conflicting traffic.
- Maintains takeoff power and V_Y ±5 knots to a safe maneuvering altitude.
- 7. Maintains directional control and proper wind-drift correction throughout the climb.
- 8. Completes the appropriate checklist.

DESCRIPTION

The landing approach is abandoned and the airplane is transitioned into the climb attitude and configuration.

PROCEDURE

- 1. Apply take-off power.
- 2. Carburetor heat cold.
- 3. Establish $\boldsymbol{V}_{\boldsymbol{Y}}$ attitude as appropriate to attain $\boldsymbol{V}_{\boldsymbol{Y}}$ airspeed.
- 4. Retract flaps in accordance with the POH.
- As airspeed increases, retract the flaps on schedule as recommended in the POH.
- 6. Adjust pitch attitude for V_Y and when the safe flap retraction speed is reached, retract to flaps zero.
- 7. Retract landing gear, if retractable, after a positive rate of climb has been established.

- 8. If go-around was caused by another airplane, offset and pass to the right unless it will conflict with other traffic (a non-standard pattern), or tower directs otherwise.
- 9. Radio intentions.

References

Commercial Pilot Practical Test Standards FAA-S-8081-12B, pg. 1-22. Airplane Flying Handbook FAA-H-8083-3, pg. 8-11 \Rightarrow 8-13. Pilot Operating Handbook/Approved Flight Manual.

GO-AROUND/REJECTED LANDING

