

Straight Glide

Lesson Objective

The student must be able to fly the glider on a specified heading, and continually maintain that heading, at a desired airspeed of the instructor's choosing. The candidate must do so with smooth control inputs, so that the glider is in constant coordinated flight.

2j

Regulatory Requirement

- Pre-solo: 14 CFR [§61.87\(i\)\(4\), \(15\)](#)
- Private Pilot Test Candidate: [PTS](#) Area of Operation VII(A)

Content

The student will learn the elements of straight flight, which include

- relationship of pitch attitude to airspeed
- the skill of tracking toward a landmark or heading at the instructor's choosing.
- the skill of maintaining wings level without inadvertent yawing motions
- the ability to adjust to atmospheric disturbances.
- maintaining a specific heading and airspeed.
- the selection of the appropriate amount of crab to counteract any winds aloft.
- a stability demonstration

Completion Standards

When complete, the student will

- exhibit knowledge of the elements related to straight glides, including the relationship of pitch attitude and airspeed.
- track toward a prominent landmark at a specified airspeed.
- demonstrate the effect of flaps, spoilers, or dive brakes, if equipped, in relation to pitch attitude and airspeed.
- exhibit smooth, coordinated control, and planning.
- maintain the specified heading, +/-10 degrees, and the specified airspeed, +/-10 knots
- when tracking to a point, select the appropriate amount of crab in crosswinds

Note: The criteria for evaluation in this section are taken directly from the [PTS](#).

Simulator Practice

Complete lessons as detailed in the [Condor Lesson Plans](#)

- 6 Descent Control

Homework for Pre-Solo

- "Glider Flight Training Manual" by Thomas Knauff p23-24
- [Glider Flying Handbook \(2013\)](#), Straight Glides, page 7-27.

Further Reading

- [CFIG Lesson Plan Notes](#)

Previous Lesson: [2i -- Normal Aerotow](#)

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