

5b

Ridge

Lesson Objective

Since SCOH does not have a nearby ridge, the objective is to relate and discuss the the elements related to ridge (aka orographic) soaring.

Regulatory Requirement

- None
- [Private Pilot Practical Test Standard](#) VI-B

Content

- Slope Soaring Techniques
- Hazards associated with ridge soaring
- Techniques for entering and leaving the ridge lift.
- Other lift sources that combine with ridge lift (thermal, wave)
- Transitioning between ridges

Completion Standards

The student must be able to explain

- the elements related to ridge and slope soaring.
- the terrain features and wind conditions which create orographic lift.
- how to enter the area of lift properly.
- methods to estimate height and maintain a safe distance from the terrain.
- how to exhibit smooth, coordinated control and how to remain within the area of lift.
- the correct technique to re-enter the area of lift, if lift is lost.

Simulator Practice

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

- 13a Flying in Ridge Lift

Homework for Pre-Solo

- “Glider Flight Training Manual” by Thomas Knauff page 236-239
- [Video: “Down at the Sea Side”](#) Ridge Soaring

Homework for Solo to Private

- [Jim Burch Online Study Guide](#): Subject Index “Ridge Soaring”
- [Glider Flying Handbook \(2013\)](#)
 - “Weather for Slope Soaring” pages 9-14 and 9-15
 - “Ridge and Slope Soaring (Techniques)” pages 10-10 through 10-16
- [PowerPoint](#) 10A(a) Soaring Techniques

Further Reading

- [CFIG Lesson Plan Notes](#)

Next Lesson: [5c -- Wave](#)

Previous Lesson: [5a -- Thermal](#)

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