Ridge

5b

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
Return to Training Syllabus