

Ground Lesson: Multi Engine Ops

Aerodynamics Fundamentals

Objectives:

1. exhibit knowledge of the elements related to Multi Engine Aerodynamics during single engine operations

Schedule:

Activity	Est. Time
Ground	1.0
Total	1.00

Recommended Readings:

AFH	Chapter 12: 12-23-12-25
POH	Section 3: Engine Out Proc.

Elements Ground:

- **General**
 - induced lift
 - critical engine
 - counter rotating propellers
- **Single Engine Aerodynamics**
 - what happens?
 - yawing tendency
 - rolling tendency
 - controllability vs performance
 - zero sideslip concept
 - what's the 5° bank conception?
 - turning
 - towards good engine
 - increased controllability, decreased performance
 - towards dead engine
 - may not have enough rudder?
 - Vmca increases