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Abbreviations:

AFH – Airplane Flying Handbook
A/FD – Airport/Facility Directory
CPT – Cockpit Procedures Trainer
FAR – Federal Aviation Regulations
PCATD – PC-based Aviation Training Device
PTS – Practical Test Standards
POH – Pilot’s Operating Handbook

Unit 6. Ground. Basic Aerodynamics, Stability, Stalls, Slow Flight, Spins

References:

Jeppesen Ch. 3B, 8B

POH

PTS

Course Materials

Quiz # 3 Grade:

	Date
Stability	
Static Stability	
Dynamic Stability	
Wing Stability	
Airplane Balance in Flight	
Longitudinal Balance, Effect of CG and Power (Thrust Line Relatively To CG, Propwash)	
Lateral Balance, Effect of Fuel Load	
Stability in Flight	
Longitudinal Stability	
Lateral Stability	
Dihedral	
Keel Effect	
Sweepback	
Directional Stability	
Stability vs. Controllability	
Slow Flight	
Backside of Power Curve	
Speed Instability	
Performing Stalls	
Types of Stalls	
Power-Off Stall	
Power-On Stall	
Secondary Stall	
Elevator Trim Stall	
Accelerated Stall	
Crossed-Control Stall	
Procedures for Power-Off and Power-On Stalls	

continued

Unit 15. Flight 5. Dual – Local. Communication, Slow Flight, Power-on Stalls

Complete

Reference:

AFH – Ch. 4. Power-on Stalls

Objective: Practice and improve communication skills and division of attention. Bring power-off stalls and slow flight to the PTS standards. Familiarize the student with power-on stalls.

Briefing (0.5 hr):	Date	Date
Review of Unit 12 as needed		
Local communication procedures		
Power-on stall		

Flight (1.5 hrs)

Review:

Normal or cross-wind takeoff		
Collision avoidance procedures		
Power-off stalls		
Slow flight		
Changing configuration in slow flight		
After landing procedures		
Post-flight procedures		

Introduction:

Local communication procedures		
Reporting points		
Power-on stalls		

Completion Standards:

Power-off stalls and slow flight: to PTS standards
Power-on stalls: Heading: $\pm 20^\circ$

Instructor's comments: