

CISS Private Pilot Pre/Post Flight Ground Discussion Name _____

The Private Pilot Flight Training Guide consists of a series of Lessons which may be completed during one or more flying and discussion sessions. The instructor should initial the items below when they have been discussed and the student has demonstrated adequate understanding of the concept.

Lesson #1

- _____ Explain Control Functions
- _____ Explain Instruments
- _____ Explain Positive Exchange of Controls

Lesson #2

- _____ Cockpit Checklist-
- _____ Pre Takeoff, Pre Landing
- _____ Explain Effect of Controls
- _____ Attitude Flying for Airspeed Control
- _____ Relative Wind and Angle of Attack
- _____ Clearing and Look before you Turn
- _____ Explain 5 Side Effects of Turning
- _____ Local Flying Area – Look at Chart
- _____ Oral Quiz on Use of Trim
- _____ Oral Quiz on Effect of Controls
- _____ Oral Quiz on Turns

Lesson #3

- _____ Preflight Inspection
- _____ Positive Control Check
- _____ Tow-Relative Motion not Position
- _____ Flight at Minimum Controllable Airspeed
- _____ Review Turns – Emphasize Coordination
- _____ Oral Quiz on Minimum Controllable Airspeed

Lesson #4

- _____ Normal Takeoff
- _____ Glider Performance
- _____ L/D Effects of Wind and Sink
- _____ Minimum Sink
- _____ Stalls Straight Angle of Attack
- _____ Thermaling – Centering Techniques
- _____ Landing Checklist – Wind, Speed, Clear
- _____ Landing Speed Calculations
- _____ Pattern Effects of Wind – Crabs & Slips
- _____ Oral Quiz on Glider Performance
- _____ Quiz on Stalls

Lesson #5

- _____ X - Wind Takeoff
- _____ Tow – Normal and Low Tow
- _____ Prop Wash & Vortices
- _____ Load Factor Increases and Stall Speed
- _____ Wind Shear & Wind Gradient Effects
- _____ T.L.A.R. Landings
- _____ Landings – Flare & Aiming Points
- _____ Dive Brakes for Altitude Control
- _____ Attitude for Airspeed Control
- _____ Oral Quiz on Turning Stalls
- _____ Oral Quiz on Wind Shear & Wind Gradient

Lesson #6

- _____ Steep Turns – Load Factor Increases
- _____ Spirals about an Area – Wind Effects
- _____ Emergencies on Tow
- _____ Tow Signals, Rope Break, Slack Line
- _____ Glider Weight and Balance
- _____ Wind Shear & Wind Gradient Effects
- _____ X - Wind Landings
- _____ Pattern – Effects of and Dealing with Lift
- _____ Pattern – Effects of and Dealing with Sink
- _____ Full Spoiler and No Spoiler Approaches
- _____ FAR Part 61 & 91
- _____ Oral Quiz on Emergencies on Tow

Lesson #7

- _____ Box Wake on Tow
- _____ Stalls – Shallow, Turning, X - Control
- _____ Stalls - Accelerated
- _____ CISS Local Field Rules
- _____ Airspace Rules
- _____ Wind Shear & Wind Gradient Effects
- _____ X - Wind Landings
- _____ Wind Condition Guidelines
- _____ Spot Landings
- _____ Forward Slips & Side Slips
- _____ Discuss FAR's Part 43 & NTSB 830
- _____ Oral Quiz on Weight and Balance

Lesson #8

- _____ Review Rope Break
- _____ Review Downwind Landings
- _____ Review Slack Line Recovery
- _____ Review Steep Turns
- _____ Review Flying at Minimum Controllable Air Speed
- _____ Discuss Effects of High Winds on Pattern
- _____ Discuss Pattern Planning when too Low
- _____ Discuss Conflicts on Runway
- _____ Quiz on Pattern Planning

Lesson #9

- _____ Review Boxing Wake
- _____ Review Tow Signals
- _____ Review Stalls
- _____ Discuss Spin Entry & Recovery
- _____ Discuss Off Field Landings – No Altimeter
- _____ Review Field Selection
- _____ Review X – Wind Landings
- _____ Review Accuracy Landings
- _____ Discuss Pattern Planning when too Low
- _____ Discuss Conflicts on Runway
- _____ Quiz on Spin Entry & Recovery
- _____ Quiz on Off Field Landings

Lesson #10

- _____ Review Pre Solo Written Quiz
- _____ Discuss Solo Responsibilities
- _____ Award 'A' Badge
- _____ Review Post Solo Training

CISS Private Pilot Pre/Post Flight Ground Discussion

Date	Instructor	Comments
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CFR 61.87 Pre Solo Required Maneuvers and Procedures

- Proper flight preparation procedures, including preflight planning, preparation, aircraft systems
- Surface operations
- Launches, including normal and crosswind;
- Straight and level flight, and turns in both directions
- Airport traffic patterns, including entry procedures;
- Collision avoidance, windshear avoidance, and wake turbulence avoidance;
- Descents with and without turns using high and low drag configurations;
- Flight at various airspeeds
- Emergency procedures and equipment malfunctions
- Ground reference maneuvers
- Inspection of towline and review of signals and release procedures
- Aerotow procedures;
- Procedures for disassembly and assembly of the glider
- Stall entry, stall, and stall recovery;
- Straight glides, turns, and spirals
- Landings, including normal and crosswind
- Slips to a landing
- Procedures and techniques for thermalling
- Emergency operations, including towline break procedures.