PRIVATE PILOT GLIDER TRAINING SYLLABUS

The following are requirements specified by the FAA for a private glider rating. Some items are knowledge requirements taught during a ground school or home study course. Other items are skill requirements taught during flight training. Some are combinations of skill and knowledge. Starred items are minimum solo requirements. Soaring sites may require additional solo items because of airspace restrictions, unique soaring conditions, and other factors. Refer to FARs and Practical Test Standards for complete requirements.

1. FAR Part 1, 43, *61, *91, and 830.
 _a. *Eligibility Requirements. _b. *Medical requirements. _c. *Personal logbook. _d. FCC station license. _e. Glider pilot certificates; privileges, and limitations. _f. Glider and tow pilot recency of experience requirements. _g. *Airworthiness and registration certificates. _h. *Maintenance requirements and records. _l. *General operating rules. _j. *Flight rules. _k. Accident reporting. _l. FAA Advisory Circulars.
2. Glider Flight Manual.
 _a. *Operating limitations, equipment list. _b. *Performance charts, tables and data. _c. *Weight and balance. _d. *Ballast and it=s effect on performance.
3. * Glider Assembly, disassembly.

4. Flight Preparation and Planning.
 _a. *National airspace system. _b. *Controlled airspace. _c. *Special use airspace. _d. En route checkpoints. _e. Go ahead points. _f. Using lift sources and speed between lift sources. _g. Terrain considerations. _h. Selecting landing areas. _l. Personal equipment. _j. Aeronautical Information Manual. _k. Navigation, aeronautical charts. _l. Cross country emergency procedures.
5. Personal Equipment.
 _a. High altitude. _b. Varying terrain. _c. Long distances. _d. Climatic conditions. _e. Oxygen systems. _f. Parachutes.
6. Flight Instruments and Associated Systems.
a. Magnetic compassb. *Yaw stringc. *Airspeed indicatord. *Altimetere. *Variometerf. Inclinometerg. Total energy compensatorh. Gyroscopic instrumentsl. Electrical systemj. Landing geark. Avionics

7. Soaring Weather.
_a. *Recognition of critical weather situations and conditions suitable for soaring flight._b. *Basic VFR weather minimums.
8. Pilot Weather Reports and Forecasts.
 _a. Procurement and use of aeronautical weather reports. _b. Area and terminal forecasts. _c. Winds & temperature aloft. _d. Severe weather watch bulletin. _e. Surface analysis chart. _f. Weather depiction chart. _g. Radar summary chart. _h. Composite moisture stability chart. _l. Significant weather prognosis. _j. Effect of density altitude and wind on performance. _k. Severe weather outlook chart. _l. SIGMET=s and AIRMET=s. _m. NOTAM=s. _n. PIREP=s. _o. Wind shear reports. _p. Making sound go-no-go decisions based on weather.
9. Stability Charts.
 _a. Pressure and temperature lapse rates. _b. Atmospheric instability. _c. Thermal index. _d. Thermal production. _e. Cloud formation and identification. _f. Frontal weather. _g. Other lift sources.
10. Hazards Associated With Thunderstorms.

11. Preflight.
 _a. *Line inspections. _b. *Tie down. Control lock and wheel chock removal. _c. *lce and frost removal. _d. *Written checklists _e. *Flight controls _f. *Proper assembly & disassembly _g. *Personal equipment. _h. *Tow rope, weak links, towline inspection, releases. _i. *Launch equipment inspection - tow hitches, releases. _j. *Structural damage. _k. *Noting discrepancies. _l. *Ground handling.
12. Launches, Aerotow and/or Ground tows. (This syllabus includes aerotow only.)
a. *Pre-takeoff checklistsb. *Takeoffc. *Aerotow, including airspeedsd. *High or low towse. *Signalsf. *Safety precautionsg. *Release proceduresh. *Slack towline proceduresl. Boxing the propwash.
13. Aerotow, Abnormal Procedures.
 _a. *Towplane power loss during takeoff. _b. *Towplane power failure at altitude. _c. *Glider release failure. _d. *Towline break during takeoff. _e. *Glider and towplane release failure. _f. * Porpoising.
14. Precision Maneuvering.
 _a. *Straight glides. _b. *Turns, shallow, medium, steep. _c. *Spirals. _d. *Flight at various airspeeds. _e. *Imminent forward and turning stalls. _f. *Full stalls, forward stalls. _g. *Collision avoidance. _h. *Ground reference maneuvers. _I. Spin entry, spins, spin recovery technique.

15. Critical Performance Speeds.
 _a. *Never exceed speed. _b. *Minimum sink speed. _c. *Maneuvering speed. _d. *Rough air redline. _e. *Speed to fly. _f. *Best glide speed.
16. Traffic Patterns.
 _a. *Co-existing traffic patterns. _b. *Rules. _c. *Pre-landing checklist. _d. *Collision avoidance. _e. *Wake turbulence _f. *Windshear avoidance. _g. Radio Communication Procedures.
17. Normal Landings.
 _a. *Use of dive brakes, spoilers, and flaps. _b. *Accuracy approaches and landings. _c. *Faulty approaches. _d. *Side slips, forward slips, turning slips.
18. *Crosswind Takeoffs and* Landings.
19. Downwind Landings.
20. Off Field Landings.
21. Emergency Procedures. Including
a. Descents with high drag devicesb. Equipment malfunctions._c. *Towline break procedures.
22. Exercising Judgment.
a. Aeronautical decision making and judgment.
23. Soaring Techniques.
_a. *Thermal Soaring._b. *Ridge and slope soaring._c. Wave soaring._d. Mountain soaring._e. *Convergence soaring

24. Recovery From Unusual Attitudes.	
_a. High speed spirals._b. Excessive bank angles._c. Excessive pitch angles._d. Crossed control stalls._e. High sink rates.	
25. Medical Factors.	
26. Pre-Solo Written Test	
27. Flight Test.	
a. Fight test requirements._b. Written test requirements._c. Use of distractions during flight test	t
ADDITIONAL FLIGHT MANEUVERS	
Control functionsYaw stringUse of trimAileron dragShallow, medium, and steep turnsSpinsBenign spiral modeLow "G" maneuversUnassisted takeoffsLanding pattern entryLeft and right hand landing patternsAccuracy landingsWheel brakeRope breaks, land straight aheadRope breaks above 200 feetNo instrument flightRadio proceduresStudent training area	