



Eagle Sport Aviation Club

SOARING TRAINING CURRICULUM

Student Name: _____

Flight 1 3000	-Use of Rudder -Use of Elevator -Use of Ailerons -Control Coordination	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 2 3000	-Straight Glides (Review) -Aileron Drag Demonstration -Overbank Tendency Demo -Shallow Turn Entry/Recovery -Coordinated Turn Practice	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 3 3000	-Use of Rudder on Tow -Stability in Turns (Demo) -90, 180, 360 Turn Practice -Rudder Use to Aim for a Point -Student Use of Rudder on Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 4 3000	-Clearing Turns -Shallow, Medium, Steep Turns -Introduction to Pattern -Spoiler Usage (CFI Directed)	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 5 3000	-Slow Flight: Demo/Practice -Turns -Pattern/Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 6 3000	-Slow Flight: Practice -Turns: Practice -TLAR Pattern/Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 7 3000	-Imminent Stall: Demo/Pract. -Full/Turning Stall: Demo/Practice -Pattern/Landing/TLAR	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	

Student Name: _____

Flight 8 3000	-Imminent Stall Practice -Full/Turning Stall Practice -Reduced "G" Demo -Pattern/Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 9 3000 PROG CHECK: Alternate Instructor	-Clearing Turns -Stall Entry/Recovery -Shallow/Medium/Steep Turns -Slow Flight -TLAR Pattern/Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 10 2000	-Student TO/Tow/Release -Shallow/Medium/Steep Turns -I.P & Pattern Entry -TLAR Pattern/Landing -Spoiler Usage	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 11 2000	-Student TO/Tow/Release -Shallow/Medium/Steep Turns -I.P & Pattern Entry -TLAR Pattern/Landing -Spoiler Usage	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 12 2000	-Student TO/Tow/Release -Shallow/Medium/Steep Turns -I.P & Pattern Entry -TLAR Pattern/Landing -Spoiler Usage	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 13 1500	-Student TO/Tow/Release -I.P & Pattern Entry -TLAR Pattern/Landing -Spoiler Usage	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 14 1500	-Student TO/Tow/Release -I.P & Pattern Entry -TLAR Pattern/Landing -Spoiler Usage	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 15 1500	-Student TO/Tow/Release -I.P & Pattern Entry -TLAR Pattern/Landing -Spoiler Usage	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	

Student Name: _____

Flight 16 3000	-Boxing the Prop (Demo) -Stalls from a Turn (Demo) -Stalls (Review/Practice) -Pattern/Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 17 3000	-Stalls from a Turn (Practice) -Cross Control Stall (Intro) -Spin Entry/Recovery (Intro) -Practice Cross Control Stalls -Practice Spin Entry/Recovery -I.P & Pattern Entry	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 18 3000	-Forward/Side/Turning Slips -Student Practice Slips -I.P & Pattern Entry -Accuracy Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 19 3000	-Slack Rope Recovery -Airwork Practice -I.P & Pattern Entry -Slips to a Landing -Accuracy Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 20 Rope Break	-Unassisted Takeoff -Straight Ahead Rope Break -Clearing to Right Side	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 21 Rope Break	-Simulated RB at 200-400 Ft. -Turn to Runway -Downwind Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 22 3000	-Airwork -Pattern/Landing -Accuracy Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 23 3000 PROG CHECK: Alternate Instructor	-Tow Maneuvers -Stalls/Recoveries -Slow Flight -Slips -Pattern/Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	

Student Name: _____

Flight 24 3000	-Tow Maneuvers -Shallow/Medium/Steep Turns -Turns to a Heading -Slow Flight -Stall Entry/Recovery -Pattern/Landing -Accuracy Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 25 3000	-Tow Maneuvers -Shallow/Medium/Steep Turns -Turns to a Heading -Slow Flight -Stall Entry/Recovery -Pattern/Landing -Accuracy Landing	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 26 3000	-First Solo	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 27 2000	-Second Solo	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flight 28 2000	-Third Solo	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	
Flights 29 & Up As Required	-Checkride Preparation -All Maneuvers	<input type="checkbox"/> Introduced <input type="checkbox"/> Needs Work <input type="checkbox"/> Proficient CFI: _____ Date: _____	

Checklist of Skills to be Complete Prior to Recommendation for Private Pilot Glider

The following are the knowledge and skill requirements specified by the FAA for a Private Pilot 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.

	Introduced	Needs work	Proficient
Basic Aerodynamics			
-Control functions	_____	_____	_____
-Yaw string	_____	_____	_____
-Aileron drag	_____	_____	_____
-Speed control; use of trim	_____	_____	_____
-Collision avoidance	_____	_____	_____
Pre-Takeoff			
-Preflight	_____	_____	_____
-Pre Takeoff checklist	_____	_____	_____
-Passenger briefing	_____	_____	_____
Tows			
-Using checklists	_____	_____	_____
-Liftoff	_____	_____	_____
-Tow position before Towplane liftoff	_____	_____	_____
-Alignment with Towplane during tow	_____	_____	_____
-Control applications during tow	_____	_____	_____
-Aerotow airspeeds	_____	_____	_____
-Wind drift correction during liftoff	_____	_____	_____
-Aerotow safety precautions	_____	_____	_____
-Wake turbulence	_____	_____	_____
-Clearing before release	_____	_____	_____
-Unassisted takeoff	_____	_____	_____
-Towline break during takeoff	_____	_____	_____
-Glider/Towplane release failure	_____	_____	_____
-Porpoising	_____	_____	_____
-Cross wind	_____	_____	_____
-Emergency release at start of tow	_____	_____	_____
-High tow	_____	_____	_____
-Low tow	_____	_____	_____
-Slack rope	_____	_____	_____
-Rope Break: Forward Landing	_____	_____	_____
-Rope Break: 180 degree turn	_____	_____	_____
-Box wake	_____	_____	_____
-Aerotow Signals	_____	_____	_____
-Emergency Release Signals	_____	_____	_____
-Says "200 Feet"	_____	_____	_____

Student Name: _____

Introduced	Needs Work	Proficient
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Straight and Level Flight _____
 Tracking at a specified speed _____
 Use of Flaps, Spoilers or Dive Brakes _____
 -While Maintaining Speed _____

Turns
 -Shallow _____
 -Medium _____
 -Steep _____

 -90 Degree _____
 -180 Degree _____
 -360 Degree _____

 -Recover to a heading _____
 -Load Factors, effect of stall speed _____
 -Overbanking tendency _____
 -Use of coordinated controls _____
 -Slipping _____

Flight at Minimum Controllable Airspeeds
 -Maintaining accurate headings _____
 -Bank angles & airspeeds _____
 -Avoiding stalls _____
 -Collision avoidance _____

Ground Reference Maneuvers _____

Slips
 -Recognizing when needed _____
 -Forward _____
 -Side _____
 -Turning _____

Stalls
 -Imminent Stalls _____
 -Full stalls straight ahead _____
 -stalls from a turn _____
 -With/Without Spoilers _____
 -With/Without Flaps _____
 -Hazards of stalling uncoordinated _____
 -Entry Altitude for practice _____
 -Use of smooth coordinated inputs _____

Spins _____

Spirals _____

Student Name: _____

Pattern	Introduced	Needs Work	Proficient
-I.P.	_____	_____	_____
-Normal Pattern	_____	_____	_____
-Modified (Unusual)	_____	_____	_____
-Left pattern	_____	_____	_____
-Right pattern	_____	_____	_____
-Entry/Departure procedures	_____	_____	_____
-Coexisting traffic patterns	_____	_____	_____
-Rules	_____	_____	_____
-Radio communications	_____	_____	_____
-Phraseology	_____	_____	_____
-Light Gun Signals	_____	_____	_____
-Communication Failures	_____	_____	_____
-Collision avoidance	_____	_____	_____
-Wake turbulence	_____	_____	_____
-Right of way	_____	_____	_____
Landings			
-Use of dive brakes, spoilers, flaps	_____	_____	_____
-Accuracy approaches and landings	_____	_____	_____
-Faulty approaches	_____	_____	_____
-Ground track with x-wind correction	_____	_____	_____
-Touchdown and Stop points	_____	_____	_____
-Coordinated controls during pattern	_____	_____	_____
-Approach Speeds	_____	_____	_____
-Round-out, flare, touchdown	_____	_____	_____
-After landing roll	_____	_____	_____
-Stopping	_____	_____	_____
-Airport signs/markings/lighting	_____	_____	_____
-Downwind			
-Safety factors	_____	_____	_____
-Use of flaps, dive/wheel brakes	_____	_____	_____
-Maintaining approach speed	_____	_____	_____
-Directional control issues	_____	_____	_____
-Crosswind	_____	_____	_____
-Pre landing checklist	_____	_____	_____
-Landing, wheel brake	_____	_____	_____
No Instrument Flight	_____	_____	_____
Radio Procedures	_____	_____	_____
Thermal Technique	_____	_____	_____

Student Name: _____

	Introduced	Needs Work	Proficient
Performance Speeds			
-Never exceed	_____	_____	_____
-Minimum Sink	_____	_____	_____
-Maneuvering speed	_____	_____	_____
-Rough air redline	_____	_____	_____
-Speed to fly	_____	_____	_____
-Best glide speed	_____	_____	_____
-Pattern speeds	_____	_____	_____
Simulated Off-Field Landing	_____	_____	_____

FAR Part 1, 43, 61, 71, 91, 830

- Eligibility Requirements
- Medical Requirements
- Personal Logbook
- Certificates, Privileges & Limitations
- Recency of Experience
- Airworthiness/Registration certificates
- Maintenance requirements and records
- Airworthiness directives
- General operating rules
- Flight rules
- Accident reporting

Glider Flight Manual

- Operating limitations, equipment list
- Performance charts, tables, data
- Weight and Balance
- Ballast and effects on performance

Glider Assembly and Disassembly

- Crew members
- Use of checklists
- Use of Tools
- Handling components
- Cleaning and Lubrication
- Accounting of tools and parts after assembly
- Post assembly inspection
- Positive control check

Flight Preparation and Planning

- National Airspace System
- Equipment requirements
- Controlled airspace

Student Name: _____

- Plotting a course
- Special use Airspace
- Flight profiles
- En Route checkpoints
- Go ahead points
- Using lift sources and speed between lift sources
- Terrain considerations
- Selecting landing areas
- Airman's Information Manual
- Navigation, Aeronautical Charts
- Cross Country emergency procedures
- Using ATC

Personal Equipment

- High Altitude
- Varying Terrain
- Long Distances
- Climactic Conditions
- Oxygen Systems
- Parachutes

Emergency Equipment

- Equipment for various terrain and climates
- Location in glider
- Operation and use

Flight Instruments and Aircraft Systems

- Magnetic compass
- Yaw string
- Airspeed indicator
- Altimeter
- Variometer
- Inclinometer
- Total Energy Compensator
- Gyroscopic instruments
- Electrical systems
- Landing gear
- Avionics

Soaring Weather and Pilot Weather Report and Forecasts

- Recognition of critical weather situations and conditions suitable for soaring flight
- VFR weather minimums
- Adverse weather conditions
- Procurement and use of aeronautical weather reports and forecasts
- Area and terminal forecasts
- Winds and Temperatures aloft

Student Name: _____

- Severe weather watch bulletin
- Surface Analysis Chart
- Weather Depiction chart
- Radar summary chart
- Composite moisture stability chart
- Significant weather prognosis
- Effect of density altitude and wind on performance
- Severe weather outlook chart
- SIGMETS and AIRMETS
- NOTAMS
- PIREPS
- Wind shear reports
- Estimating visibility
- Making sound go/no-go decisions based on weather

Stability Charts

- Pressure and Temperature lapse rates
- Atmospheric instability
- Thermal index
- Thermal production
- Cloud formation and identification
- Frontal weather
- Other lift sources

Hazards Associated with Thunderstorms

Student Name: _____

Completion Standards:

Flight 1	Demonstrate understanding of: -function of primary flight controls -basic aerodynamic theory -application in straight glides
Flight 2	Demonstrate understanding of: -function of primary flight controls -basic aerodynamic theory -roll/pitch/yaw stability & how glider attains the desired stability -perform external preflight -perform gentle turns in a coordinated manner
Flight 3	Student should be able to: -apply knowledge in completion of coordinated turns -demonstrate understanding of using rudder on tow to aim at towplane appropriately -demonstrate understanding of using rudder on final to aim the nose down or parallel to centerline of runway
Flight 4	Student should be able to: -perform ground handling -perform pre-takeoff checklist -use rudder to aim for tail or outside wing of towplane -make coordinated turn entries/recoveries -demonstrate understanding of need for back pressure during sustained turns and aileron pressure during shallow and steeper turns -fly landing pattern under instructor's direction -use rudder properly to maintain directional control of aircraft -use spoilers properly under instructor's direction
Flight 5	Student should be able to: -perform ground handling/pre-takeoff checklist -use all three controls during takeoff and tow -announce 200 feet on tow -make coordinated turn entries/recoveries to a predetermined heading -perform slow flight under instructor direction -fly the pattern under instructor's direction -use all three controls in a coordinated (or necessary) manner during pattern/landing -Use spoilers during pattern and landing under instructor's direction
Flight 6	Student should be able to: -perform coordinated turns to a heading -fly the aircraft in slow flight -fly the pattern under instructor direction -observe TLAR angles under instructor's direction -use spoilers under instructor's direction to land as specified on the runway

Student Name: _____

Flight 7	<p>Student should be able to:</p> <ul style="list-style-type: none">-list the signs of an imminent stall-perform clearing turns before stalls-recover from imminent stall at first sign of buffeting-perform positive recovery from a stall straight ahead or from a turn-fly the pattern under instructor direction-observe TLAR angles indicated by instructor-use spoilers as directed to land as specified on the runway
Flight 8	<p>Student should be able to:</p> <ul style="list-style-type: none">-perform clearing turns before stalls-perform imminent stalls and recoveries-perform forward and turning stalls and recoveries-recover with no tendency to pick up a dropping wing with aileron-understand that reduced G's are not a sign of impending stall and show no adverse sensitivity to reduced G-fly the pattern-observe TLAR angles-use spoilers to control landing at a designated area
Flight 9	<p>Student should be able to:</p> <ul style="list-style-type: none">-perform appropriate ground handling procedures-perform take-off and tow, announcing 200 feet-perform proper release procedures/clearing turns-perform imminent, forward and turning stalls and recoveries-perform 90, 180, 360 degree turns to a heading-perform shallow/medium/steep bank turns-arrive IP at proper altitude-fly the pattern-use spoilers and dive brakes to control descent-land at or near a designated area-follow proper post flight handling procedures for the glider
Flights 10-15	<p>Student should be able to:</p> <ul style="list-style-type: none">-perform appropriate ground handling procedures-perform take-off and tow, announcing 200 feet-perform proper release procedures/clearing turns-perform shallow/medium/steep bank turns-arrive IP at proper altitude-fly the pattern-use spoilers and dive brakes to control descent-land at or near a designated area-follow proper post flight handling procedures for the glider

Student Name: _____

Flight 16	Student should be able to: <ul style="list-style-type: none">--perform appropriate ground handling procedures-perform take-off and tow, announcing 200 feet-perform proper release procedures/clearing turns-perform imminent, forward and turning stalls and recoveries-arrive IP at proper altitude-fly the pattern-use spoilers and dive brakes to control descent-land at or near a designated area-follow proper post flight handling procedures for the glider
Flight 17	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow, announcing 200 feet-perform proper release procedures and clearing turns-understand how to perform turning stall entries/recoveries-perform cross-control stall and spins under instructor direction-arrive at the IP at the proper altitude-fly the pattern, using spoilers/dive brakes to control rate of descent-land at or near the designated area-follow proper post-flight handling procedures
Flight 18	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow, announcing 200 feet-perform proper release procedures and clearing turns-perform slips under direction of instructor-arrive at the IP at the proper altitude-fly the pattern, using spoilers/dive brakes to control rate of descent-land at or near the designated area-follow proper post-flight handling procedures
Flight 19	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow, announcing 200 feet-recover from slack rope situations-perform proper release procedures and clearing turns-arrive at the IP at the proper altitude-fly the pattern, using spoilers/dive brakes to control rate of descent-land at or near the designated area-follow proper post-flight handling procedures
Flight 20	Student should be able to: <ul style="list-style-type: none">-perform appropriate ground handling maneuvers-perform takeoff without a wing runner-land to the right side of runway when rope breaks-perform proper post-flight handling of glider

Student Name: _____

Flight 21	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow-indicate 200 feet on climbout-lower nose of aircraft as an immediate turn into the wind is completed-perform 45 degree bank to return to runway-perform downwind landing-follow proper post-flight handling procedures
Flight 22	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow-indicate 200 feet on climbout-perform air work within prescribed limits-perform landing within prescribed limits-follow proper post flight handling procedures
Flight 23	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow, announcing 200 feet-perform tow maneuvers-perform proper release procedures/clearing turns-perform imminent, forward and turning stalls and recoveries-perform 90, 180, 360 degree turns to a heading-perform shallow/medium/steep bank turns-perform slips-arrive at IP at proper altitude-fly pattern/landing using dive brakes/slips to control descent-land at designated area-follow proper post-flight handling procedures
Flight 24	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow, announcing 200 feet-perform tow maneuvers-perform proper release procedures/clearing turns-perform imminent, forward and turning stalls and recoveries-perform 90, 180, 360 degree turns to a heading-perform shallow/medium/steep bank turns-perform slips-arrive at IP at proper altitude-fly pattern/landing using dive brakes/slips to control descent-land at designated area-follow proper post-flight handling procedures

Student Name: _____

Flight 25	Student should be able to: <ul style="list-style-type: none">-practice appropriate ground handling procedures-perform takeoff and tow, announcing 200 feet-perform tow maneuvers-perform proper release procedures/clearing turns-perform imminent, forward and turning stalls and recoveries-perform 90, 180, 360 degree turns to a heading-perform shallow/medium/steep bank turns-perform slips-arrive at IP at proper altitude-fly pattern/landing using dive brakes/slips to control descent-land at designated area-follow proper post-flight handling procedures
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Complete Pre-solo Exam

CFI: _____

Date: _____