

## Aeronautical Knowledge Training Record

Student Name:	Primary Instructor:
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*Read*
*Workbook*
*Instruction*
*Complete*

### 1 Glider Familiarization

1.1	The Glider*†				
1.2	Assembling and Disassembling The Glider				
1.3	Flight Manual*†				
1.4	Documentation*†				

### 2 Airport Familiarization

2.1	Operating Procedures*†				
2.2	Pattern Operations Including Entry Procedures*				
2.3	Airport Markings				
2.4	Airport Lighting				
2.5	Collision Avoidance*†				
2.6	Airport Traffic				
2.7	Windshear Precautions and Avoidance				
2.8	Wake Turbulence*				

### 3 Aerodynamics

3.1	Nomenclature				
3.2	Three Forces				
3.3	Airspeed Limits				
3.4	Turning Flight				
3.5	Load Factor				
3.6	Stability				

### 4 Performance

4.1	Glide Ratio†				
4.2	Glider Polars†				
4.3	Effects of Wind†				
4.4	Effects of Lift/Sink†				
4.5	Effects of Wing Loading†				

### 5 Flight Instruments and Systems

5.1	The Atmosphere*				
5.2	Primary Instruments*				
5.3	Secondary Instruments				
5.4	Other Flight Systems				

### 6 Weather for Soaring

6.1	The Atmosphere				
6.2	Dew Point				
6.3	Atmospheric Stability				
6.4	Clouds				
6.5	Fog				
6.6	Precipitation				
6.7	Weather Systems				
6.8	Describing the Weather				
6.9	Thermal Soaring Weather†				
6.10	Ridge Soaring Weather†				
6.11	Wave Soaring Weather†				
6.12	Convergence Lift†				
6.13	Predicting Soaring Weather†				

### 7 Aviation Weather Services

7.1	Sources of Weather Services				
7.2	Weather Briefings				
7.3	Observations				
7.4	Forecasts				
7.5	In-Flight Aviation Weather Advisories				

*Items marked \* required before solo. Items marked † required for transition pilots.*

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### 8 Medical Factors

8.1	Physiological Issues				
8.2	Mental Issues				
8.3	Chemicals				

### 9 Regulations

9.1	Definitions and Abbreviations*				
9.2	Maintenance Requirements*				
9.3	Certification of Pilots*				
9.4	General Operating Rules*				
9.5	Accident Reporting				

### 10 Flight Publications

10.1	Federal Aviation Regulations (FARs)				
10.2	Aeronautical Information Manual (AIM)				
10.3	Notices to Airmen (NOTAMS)				
10.4	Airport/Facility Directory (A/FD)				
10.5	Advisory Circulars (ACs)				

### 11 Airspace

11.1	Why Have Airspace?*				
11.2	Controlled Airspace*				
11.3	Uncontrolled Airspace*				
11.4	Special Use Airspace				
11.5	Other Airspace				

### 12 Aeronautical Charts and Navigation

12.1	Latitude and Longitude				
12.2	VFR Aeronautical Charts				
12.3	Reading Aeronautical Charts				
12.4	Navigation				

### 13 Radio Communications

13.1	Radio Technique				
13.2	Who Are You Talking To?				
13.3	When to Use the Radio				

### 14 Personal Equipment

14.1	Attire for Flying†				
14.2	Food and Water†				
14.3	Parachutes†				
14.4	Survival Gear†				

### 15 Cross-Country Soaring

15.1	Glide Slope Management†				
15.2	Cross-Country Supplies†				
15.3	Speed-to-Fly Theory†				
15.4	Getting Started†				
15.5	Choosing a Route†				
15.6	Flying the Route†				
15.7	Off-Field Landing†				
15.8	Retrieve†				
15.9	Crew Duties†				

### 16 Aeronautical Decision Making

16.1	Situational Awareness				
16.2	Judgment				
16.3	Risk Management*				
16.4	Self-Discipline				

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# Flight Training Progress Record

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GPHAK Prereq.      Read      Workbook      Instruction      Demonstrated      Level 1      Level 2      Level 3      Responsible      Proficient

**1 Orientation, Pre-Flight, Postflight**

1.1	Primary Flight Controls*												
1.2	Secondary Flight Controls*												
1.3	Using the Flight Instruments*												
1.4	Ground Handling*												
1.5	Preflight Planning*												
1.6	Preflight Inspection*												
1.7	Positive Control Check*												
1.8	Tow Rope Inspection*												
1.9	Ground Signals*												
1.10	Securing the Glider												
1.11	Area Familiarization												

**2 Takeoffs**

2.1	Surface operations*												
2.2	Takeoff Checklist*												
2.3	Takeoff Procedures and Signals*												
2.4	Takeoff*												
2.5	Crosswind Takeoffs*												
2.6	Takeoff Without a Wing Runner												
2.7	Downwind Takeoff												
2.8	High Altitude Takeoff												

**3 Aerotow**

3.1	Introduction to Flying the Aerotow*												
3.2	Flying the Aerotow With Stick and Rudder*												
3.3	Release from Tow*												
3.5	Hi and Low Tow/Shifting Through The Wake*												
3.6	Steering Turns												
3.7	Aerotow Signals*												
3.8	Boxing the Wake												
3.9	Slack Rope on Tow*												
3.10	Slack Rope in a Turn*												

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**4 In-Flight Maneuvers**

4.1	Transferring Control of the Glider*													
4.2	Scanning for Traffic/Collision Avoidance*													
4.3	Pitch/Speed Control*													
4.4	Using the Trim Control*													
4.5	Straight flight*													
4.6	Flight at various airspeeds*													
4.7	Shallow/Medium Bank Turns*													
4.8	Steep Turns*													
4.9	Circling Flight*													
4.10	Crabbing During Cruise Flight*													
4.12	Airbrakes in Flight*													
4.13	Descents with and w/o turns in high/low drag*													
4.14	Stall Entry/Recognition/Recovery in Level Flight*													
4.15	Stall Entry/Recognition/Recovery in Turning Flight*													
4.16	Slow Flight*													
4.17	Stall Recognition and Recovery with Airbrakes*													
4.18	Deep Stall Recognition and Recovery													
4.19	Benign Spirals													
4.20	Side Slip - Correcting for Alignment Errors*													
4.21	Side Slip-Compensating for a Crosswind*													
4.22	Forward Slip*													
4.23	Selecting a Cruise Airspeed													
4.24	Precision Turns													
4.26	Low-G Maneuvers													
4.27	Incipient Stall Recognition and Recovery													
4.28	Spin Recognition and Recovery													
4.30	High-Speed Flight													

**5 Landing Patterns**

5.1	Landing Checklist*													
5.2	Introduction to the Traffic Pattern*													
5.3	Glide Slope Control Using the Airbrakes*													
5.4	Radio Use													
5.5	Crosswind Patterns*													
5.6	Unusual Patterns*													
5.7	Forward Slip with Airbrakes*													
5.8	Turning Slips*													
5.9	Side Slip in the Pattern*													
5.10	No Altimeter Pattern													
5.11	No Altimeter/Airspeed Pattern													
5.12	No Airbrake Pattern													
5.13	Full Airbrake Pattern													

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<b>6 Landings</b>														
6.1	Introduction to the Landing*													
6.2	Precision Landings*													
6.3	Crosswind Landings*													
6.4	Landing Over an Obstacle													
5.7	Forward Slips To A Landing*													
6.5	Simulated Off-Field Landing													
6.6	Downwind Landing													
6.7	High Wind Landings													
6.8	High Density Altitude Landings													

<b>7 Flying in Lift</b>														
7.1	Thermaling*													
7.2	Mountain Wave													
7.3	Ridge													
7.4	Convergence/Shear													

<b>8 Emergency Procedures</b>														
8.1	Introduction to Premature Aerotow Release*													
8.2	Simulated Rope Breaks:*													
8.2a	Straight Ahead													
8.2b	180°													
8.2c	Abbreviated Pattern													
8.3	Rock Off*													
8.4	Tow Plane Power Loss During Takeoff*													
8.5	Tow Plane Power Loss at Altitude*													
8.6	Simultaneous Release Failure													
8.7	Spiral Dive Recovery*													
8.8	Unusual Attitude Recovery													
8.9	Airspeed/Altimeter malfunctions*													
8.10	Canopy Malfunctions*													
8.11	Intercept Procedures													

<b>9 Aeronautical Decision Making</b>														
9.1	Situational Awareness													
9.2	Judgement													
9.3	Self-Discipline													

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