



LVVSA STUDENT TRAINING RECORD

Student Name: _____

STUDENTS

It is your responsibility to maintain of this training record. Have it with you whenever you come to fly or when you receive ground instruction.

This student training record is designed to aid students in self study and to provide feedback and trend analysis for in flight maneuvers and tasks. Do not wait for instructors to give you reading assignments from this document. Ask you instructor to give you a reading assignment or use the guidance give below and begin reading on your own. Once you have completed a reading assignment be sure to schedule some time with an instructor to be sure you understand the material. You will most likely not need to be intimately familiar with some subjects, like Drogue Chute Malfunctions, for your checkride. They are included here for students to become generally familiar with.

There is quite a bit of redundancy in the readings considering that the AIM, GFH, and PHAK oftentimes cover the same subject matter. Some sources are more comprehensive that others or present information in a different way. It is not necessary that you read all three sources on a given subject. It is a good idea to keep up with the reading so that it does not all pile up on you at the end of training.

Required Reference Material

- Aircraft Weight and Balance
- FAR/AIM
- Glider Flying Handbook 2013 (GFH)
- Pilot's Handbook of Aeronautical Knowledge (PHAK)
- Pilot's Operating Handbook (POH)
- Practical Test Standards (PTS)(1999 – Private) (2006 – Commercial) (CFI – 2006)
- Current Written Test Prep Guide (After Solo)
- Aviation Instructor's Handbook (2008) (For CFI-G Training)
- Fundamentals of Instruction Test Prep Guide (For CFI-G Training)

INSTRUCTORS/STUDENTS

This document is also designed to provide a general flow to be followed so that we produce professional pilots. Part 61.87 requirements for solo are identified as indicated below.

1. * Knowledge, maneuvers, and procedures subjects required prior to solo by 61.87
2. Underlined items should be completed prior to solo at the instructor's discretion
3. **Bold Items** are FAA special interest items reference COMMERCIAL and CFI PTS Intro
4. Other items should be completed after solo at the instructor's discretion and in keeping with PTS guidance

Grading of Flight Tasks and Maneuvers

- 1 = Demo
- 2 = Performed with assistance
- 3 = Performed without assistance
- 4 = Solo Proficient
- 5 = Checkride Proficient
- C = Critical Safety Item

FAA SPECIAL INTEREST ITEMS

1. POSITIVE AIRCRAFT CONTROL
2. POSITIVE EXCHANGE OF FLIGHT CONTROLS
3. STALL AND SPIN AWARENESS
4. COLLISION AVOIDANCE
5. WAKE TURBULENCE AND LOW LEVEL WIND SHEAR AVOIDANCE
6. RUNWAY INCURSION AVOIDANCE
7. CONTROLLED FLIGHT INTO TERRAIN (CFIT)
8. AERONAUTICAL DECISION MAKING/RISK MANAGEMENT
9. CHECKLIST USEAGE
10. SPATIAL DISORIENTATION
11. TEMPORARY FLIGHT RESTRICTIONS (TFR)
12. SPECIAL USE AIRSPACE (SUA)
13. AVIATION SECURITY
14. WIRE STRIKE AVOIDANCE

Requirements to Solo

- ☐ * Must be 14 years old
- ☐ * Must have taken the pre-solo written test
- ☐ * Pre-solo written test must be reviews by an instructor
- ☐ *Logbook endorsement for the type of launch being used for solo flight
- ☐ *Logbook endorsement for the type of glider to be flown

Requirements to Take a Checkride

- ☐ Must be 16 years old
- ☐ Logbook endorsement certifying that you are prepared for the knowledge test
- ☐ Pass the required knowledge test and have an authorized instructor go over the questions missed
- ☐ Logbook endorsement certifying that you have received required training and are prepare for the practical test
- ☐ Logbook endorsement for the type of launch being used for the practical test
- ☐ Meet the aeronautical experience requirements before applying for the practical test
- ☐ Hold an appropriate pilot certificate
- ☐ Have an airworthy glider with dual flight controls
- ☐ Coordinate with the flight examiner

Preflight Preparation

CFI										
DATE										
FLT TIME										
*Weather										
Soaring Weather										
*NOTAMS										
*TFR's										
*Weight & Balance										
X-Country Plan										
*Performance Data										
*Certificated/Docs										
Briefing										

Pre and Post Flight Tasks and Inspections

*Assy/Dis-Assy										
*Preflt Inspection										
Inspect Towline/Ring										
*Pos Control Chk										
*Ground Handling										
*Taking the Runway										
Cockpit Management										
*Post Flt Inspection										

Launches and Aerotow

*Before T/O Check										
CRM										
*Pilot/Runner Signals										
*Normal T/O										
*X-Wind T/O										
*PTT										
*On Tow										
*Pilot/Tow Pilot Sig										
*Slackline Recovery										
Box the Wake										
*Inability to Release										
*Tow Release										

Airwork

CFI										
DATE										
FLT TIME										
*Straight Glide										
*Clearing Turns										
*Turns (Shallo/Med)										
*Turns (Steep)										
*Straight Stalls										
*Stalls w/Spoilers										
*Turning Stalls										
*Turn Stall w/Spoiler										
*X-Control Stalls										
Spins/Spin Entry										
*Spiral Dive Recovery										
*MCA										
*Min Sink/Best Glide										
*Speed to Fly										
*Thermalling										
Ridge Soaring (CFIT)										
Wave Soaring										
*Descents & w/Turns										
*Canopy Malfunction										
VFR On Top										

Traffic Patterns and Landings

*Before Landing Chk										
*Enter Traffic Pattern										
*Traffic Pattern										
*Final Approach										
*Normal Landing										
*X-Wind Landing										
*Hazard Winds/Turb										
*Slips to Land										
No Spoiler App/Land										
*Downwind Landing										
Accuracy Landing										
Low Energy Landing										
Simulated Out Land										
Pitot-Static Inop										

General

<u>Aircraft Control</u>										
<u>Change of Flt Control</u>										
<u>CRM</u>										
<u>Judgment</u>										
<u>Radio Communication</u>										
*Scan/Collision Avoid										
*SA										

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Glider Ground Training Syllabus

Applicable Sections of Part 43 and Part 91 (Maintenance)

<input type="checkbox"/> 43.1(a)(b): Applicability	<input type="checkbox"/> 91.401: Applicability
<input type="checkbox"/> 43.3 (d) (g)(k): Persons authorized to perform mx	<input type="checkbox"/> 91.403: General
<input type="checkbox"/> 43.5: Approval for return to service	<input type="checkbox"/> 91.405: Who is responsible for maintenance
<input type="checkbox"/> 43.7(f): Approval for return to service	<input type="checkbox"/> 91.407: Operation after maintenance
<input type="checkbox"/> 43.9(a): Maintenance record entries	<input type="checkbox"/> 91.409: Inspections (a)(b)(c)
<input type="checkbox"/> 43.12: Falsification of maintenance records	<input type="checkbox"/> 91.411: Altimeter/altitude reporting tests/ inspections
<input type="checkbox"/> 43.13(a)(b): Performance Rules	<input type="checkbox"/> 91.413: ATC transponder tests and inspections
<input type="checkbox"/> Part 43 App A(c): Preventative maintenance	<input type="checkbox"/> 91.417: Maintenance records
	<input type="checkbox"/> 91.419: Transfer of maintenance records

Applicable Sections of Part 61 (Certification)

<input type="checkbox"/> 61.2(a)(5), (a)(6): Medical certificates	<input type="checkbox"/> *61.83(b): Eligibility requirements for students
<input type="checkbox"/> 61.2(b): Currency	<input type="checkbox"/> *61.87(b): Aeronautical knowledge
<input type="checkbox"/> *61.3(a): Documents in your possession.	<input type="checkbox"/> *61.87(c): Pre-solo flight training
<input type="checkbox"/> *61.3(c): Med Certificate (In your possession)	<input type="checkbox"/> *61.87(i): Maneuvers pre-solo flt tng in a glider
<input type="checkbox"/> *61.3(d): CFI Certificate (In your possession)	<input type="checkbox"/> *61.87(n): Limits students operating aircraft solo
<input type="checkbox"/> *61.15: Offenses involving alcohol or drugs	<input type="checkbox"/> *61.87(p)(4): Solo Logbook endorsement
<input type="checkbox"/> *61.16: Refusal to submit to alcohol test	<input type="checkbox"/> *61.89(a): General student pilot limitations
<input type="checkbox"/> 61.17: Temporary Certificates	<input type="checkbox"/> *61.95(a): Student ops in class B airspace
<input type="checkbox"/> 61.18: Security Disqualification	<input type="checkbox"/> 61.103: Eligibility (Private Pilot)
<input type="checkbox"/> *61.19(b): Duration of student pilot cert	<input type="checkbox"/> 61.105: Knowledge (Private Pilot)
<input type="checkbox"/> 61.19(c)(d): Duration of pilot certificates	<input type="checkbox"/> 61.107(a)(b)(6): Proficiency (Private Pilot)
<input type="checkbox"/> *61.23(b): Ops not requiring a med cert	<input type="checkbox"/> 61.109(f): Experience (Private Pilot)
<input type="checkbox"/> 61.25: Change of name	<input type="checkbox"/> 61.113: Limitations (Private Pilot)
<input type="checkbox"/> 61.27: Surrender or exchange of certificate	<input type="checkbox"/> 61.123: Eligibility (Commercial Pilot)
<input type="checkbox"/> *61.29: Replacement of a lost airman certificate	<input type="checkbox"/> 61.125: Knowledge (Commercial Pilot)
<input type="checkbox"/> *61.31(j)(1)(i): Additional requirements	<input type="checkbox"/> 61.127(a)(b)(6): Proficiency (Commercial Pilot)
<input type="checkbox"/> 61.35: Knowledge Test	<input type="checkbox"/> 61.129(f): Experience (Commercial Pilot)
<input type="checkbox"/> 61.37: Cheating	<input type="checkbox"/> 61.133: Privileges/Limitations (Comm Pilot)
<input type="checkbox"/> 61.39: Prerequisites for practical tests	<input type="checkbox"/> 61.183: Eligibility (CFI)
<input type="checkbox"/> 61.43: Practical tests	<input type="checkbox"/> 61.185: Knowledge (CFI)
<input type="checkbox"/> 61.45(a)(b)(c): Practical tests: required equip	<input type="checkbox"/> 61.187(a)(b)(6): Proficiency (CFI)
<input type="checkbox"/> 61.49: Retesting after failure	<input type="checkbox"/> 61.189: Flight Instructor Records
<input type="checkbox"/> *61.51(a): Logbooks: Tng time/experience	<input type="checkbox"/> 61.191: Additional Flight Instructor Ratings
<input type="checkbox"/> *61.51(d): Logbooks: Logging solo time	<input type="checkbox"/> 61.193: Flight Instructor Privileges
<input type="checkbox"/> *61.51(e): Logbooks: Logging PIC time	<input type="checkbox"/> 61.195: CFI Limitations and Qualifications
<input type="checkbox"/> *61.53(b): Operations with a medical deficiency	<input type="checkbox"/> 61.197: Renewal Requirements for CFI's
<input type="checkbox"/> 61.56: Flight Review	<input type="checkbox"/> 61.199: Reinstatement of Expired CFI Certificate
<input type="checkbox"/> *61.57(a): Recent flight experience	
<input type="checkbox"/> *61.63(b): Additional Aircraft Category Training	
<input type="checkbox"/> *61.63(b)(2): Logbook Endorsement	

Applicable Sections of Part 91 (General Operating and Flight Rules)

<input type="checkbox"/>	91.1: Applicability	<input type="checkbox"/>	*91.137: TFR's
<input type="checkbox"/>	*91.3: Responsibility and authority of the PIC	<input type="checkbox"/>	*91.139: Emergency air traffic rules
<input type="checkbox"/>	91.7: Civil aircraft airworthiness	<input type="checkbox"/>	91.141: Flight restriction for Presidential parties
<input type="checkbox"/>	*91.9: POH, marking, placard requirements	<input type="checkbox"/>	91.143: Ops in proximity of space flt ops
<input type="checkbox"/>	91.11: Interference with aircrew members	<input type="checkbox"/>	91.144: High barometric conditions
<input type="checkbox"/>	*91.13: Careless or reckless operation	<input type="checkbox"/>	91.145: Ops in vicinity of major events
<input type="checkbox"/>	*91.15: Dropping objects	<input type="checkbox"/>	91.153: VFR flight plan: Information required
<input type="checkbox"/>	*91.17: Alcohol or drugs	<input type="checkbox"/>	*91.155: Basic VFR Minimums (Class A - G)
<input type="checkbox"/>	*91.19: Carrying drugs	<input type="checkbox"/>	91.157: Special VFR
<input type="checkbox"/>	*91.21: Portable electronic devices	<input type="checkbox"/>	*91.159: VFR Cruising Altitudes
<input type="checkbox"/>	*91.25: Aviation Safety Reporting Program	<input type="checkbox"/>	*91.179: IFR Cruising altitude
<input type="checkbox"/>	*91.103: Preflight Action	<input type="checkbox"/>	91.203: Civil aircraft: Certifications required
<input type="checkbox"/>	*91.105: Crewmembers at stations	<input type="checkbox"/>	*91.205(b): Required instruments /equipment for VFR
<input type="checkbox"/>	*91.107(a)(1), (a)(2): Safety belts	<input type="checkbox"/>	91.207: ELT
<input type="checkbox"/>	*91.111: Operating near other aircraft	<input type="checkbox"/>	*91.211(a): Supplemental Oxygen
<input type="checkbox"/>	*91.113: Right of way rules	<input type="checkbox"/>	*91.213: Inoperative instruments and equipment
<input type="checkbox"/>	*91.117: Aircraft speed	<input type="checkbox"/>	*91.215: Transponders
<input type="checkbox"/>	*91.119: Minimum safe altitudes	<input type="checkbox"/>	*91.225: ADS-B
<input type="checkbox"/>	91.121: Altimeter Settings	<input type="checkbox"/>	*91.309: Towing Gliders (Weak links)
<input type="checkbox"/>	91.123: Compliance with ATC	<input type="checkbox"/>	91.319: Experimental certificates
<input type="checkbox"/>	91.125: ATC Light Signals	<input type="checkbox"/>	91.505: Familiarity w/limits & emergency equipment
<input type="checkbox"/>	*91.126(a)(b): Operating in class G airspace	<input type="checkbox"/>	91.519: Passenger Briefing
<input type="checkbox"/>	*91.127: Operating in vicinity class E airspace		
<input type="checkbox"/>	91.129: Operating in vicinity class D airspace		
<input type="checkbox"/>	91.130: Operating in vicinity class C airspace		
<input type="checkbox"/>	*91.131: Operating in vicinity class B airspace		
<input type="checkbox"/>	91.133: Restricted and prohibited areas		
<input type="checkbox"/>	91.135: Operations in class A airspace		

Applicable Sections of Part 830 (Safety)

<input type="checkbox"/>	830.5: Immediate Notification
<input type="checkbox"/>	830.6: Information to be given in notification
<input type="checkbox"/>	830.10: Preservation of aircraft wreckage, mail, cargo, and records
<input type="checkbox"/>	830.15: Reports and statements to be filed

BASIC ACADEMICS

<input type="checkbox"/> *Aircraft Limitations.....Flt Manual/PTS I D	<input type="checkbox"/> *Local Airspaces and Procedures.....CFI-G
<input type="checkbox"/> *Aircraft Systems.....Flt Manual, PTS I C	<input type="checkbox"/> *Mag CompassPTS I C, PHAK 8-23 – 8-27
<input type="checkbox"/> *Altimeter Setting.....AIM 7-2-1 – 7-2-5	<input type="checkbox"/> *Pitot/Static InstrPTS I C, PHAK 8-2 – 8-10
<input type="checkbox"/> *Club Rules and Procedures.....CFI-G	<input type="checkbox"/> *Pitot/Static Instr.....GFH 4-2 – 4-15
<input type="checkbox"/> *Coll Avoidance.....GFH 4-18, 7-24, 10-9, 12-10	<input type="checkbox"/> *See and Avoid.....AIM 5-5-8/PTS Intro
<input type="checkbox"/> *Coll Avoidance.....AIM4-4-15, 8-1-8, PTS Intro	<input type="checkbox"/> *Student Training Area.....CFI-G
<input type="checkbox"/> *Collision Avoidance.....PHAK 14-28 – 14-34	<input type="checkbox"/> *Vision Inflight.....AIM 8-1-6
<input type="checkbox"/> Fitness for Flight.....AIM 8-1-1, PTS I E	<input type="checkbox"/> Visual Separation.....AIM 4-4-14
<input type="checkbox"/> *Glider Components/Systems.....GFH Ch 2	<input type="checkbox"/> *Yaw String/Inclinometer.....GFH 4-14 - 4-16
<input type="checkbox"/> *Glider Flight Characteristics.....POH, CFI	

BASIC GROUND AND FLIGHT TASKS

<input type="checkbox"/> *Aero Tow.....GFH 7-6 – 7-8, 12-8 – 12-10	<input type="checkbox"/> *Pre-Launch Checklist(Pos Cont Chk).....GFH 6-7
<input type="checkbox"/> *Airspeed ControlCFI-G	<input type="checkbox"/> *Pre-Launch Signals.....GFH 7-2, 12-6 – 12-7
<input type="checkbox"/> *Preflight Inspection.....POH/GFH 6-5	<input type="checkbox"/> *Scanning.....PHAK 2-24, 14-28, 17-20 – 17-22
<input type="checkbox"/> *Before Landing Checklist.....GFH 7-22, PTS IV Q	<input type="checkbox"/> *Straight Glides.....GFH 7-27 – 7-28, PTS VII A
<input type="checkbox"/> *Before T/O Checklist.....GFH 6-6 – 6-8, PTS IV A	<input type="checkbox"/> *Straight/Turning Descents (Intro to Tfc Pats)
<input type="checkbox"/> Change of Flight Controls.....CFI-G, PTS Intro	<input type="checkbox"/> *Takeoff and Climb.....GFH 12-7 – 12-8
<input type="checkbox"/> Cross Check and Muscle Memory.....CFI-G	<input type="checkbox"/> *Tow Release.GFH 7-8 – 7-9, PTS IV C, IV F, IV G
<input type="checkbox"/> *Descent, App, Land.....GFH 12-10	<input type="checkbox"/> *Traffic Patterns.....GFH 7-22 – 7-23, PTS III B
<input type="checkbox"/> *Ground Handling/Securing..... GFH 6-4 – 6-5	<input type="checkbox"/> *Traffic Pattern Entry.....GFH 7-22, AIM 4-3-3
<input type="checkbox"/> *Launch Equipment Inspection.....GFH 6-5 – 6-6	<input type="checkbox"/> *Turns.....GFH 3-13, 7-28 – 7-31, PTS VII B
<input type="checkbox"/> *Normal App/Landing..GFH 7-22 – 7-25, PTS IV Q	<input type="checkbox"/> *Visual Clearing Procedures.....AIM 4-4-15
<input type="checkbox"/> *Normal Assisted T/O.....GFH 7-2 – 7-5, PTS IV B	

PRE-SOLO ACADEMICS

<input type="checkbox"/> Aerodynamics...GFH 3-1 – 3-19, PHAK 5-1 – 5-44	<input type="checkbox"/> *Landing Gear and Wheel Brake.....GFH 2-8
<input type="checkbox"/> Aircraft Construction.....PHAK 3-2 – 3-13	<input type="checkbox"/> *METAR.....PHAK 13-6 – 13-8
<input type="checkbox"/> Aircraft Performance.....POH, GFH 5-1 – 5-12	<input type="checkbox"/> Personal Equipment.....CFI-G
<input type="checkbox"/> Aircraft Performance.....GFH 7-36 – 7-38	<input type="checkbox"/> *Post Flight.....GFH 7-27
<input type="checkbox"/> Air Nav and Obstruction Lighting.....AIM 2-2	<input type="checkbox"/> *Preflight Preparation.....AIM 5-1-1
<input type="checkbox"/> Airport Markings and Signs.....AIM 2-3/PTS III C	<input type="checkbox"/> Principles of Flight.....PHAK 4-1 – 4-9
<input type="checkbox"/> Airport Markings and Signs...PHAK 14-5 – 14-16	<input type="checkbox"/> Radio Communications.....AIM 4-2-1 – 4-2-13
<input type="checkbox"/> Airport Markings and Signs.....PHAK App C	<input type="checkbox"/> Radio Communications.....PTS III A
<input type="checkbox"/> Airport Operations.....AIM 4-3-1 – 4-3-5	<input type="checkbox"/> Right of Way.....GFH 10-13
<input type="checkbox"/> Airport Operations.....PHAK 14-1 – 14-37	<input type="checkbox"/> Sectional Charts.....AIM 9-1-4, CFI-G
<input type="checkbox"/> Airspace.....AIM 3-1-1 – 3-3-2, PTS VIII B	<input type="checkbox"/> Special Use Airspace.....AIM 3-4-1 – 3-4-8
<input type="checkbox"/> Airspace.....PHAK 15-1 – 15-11	<input type="checkbox"/> *TAF.....PHAK 13-9
<input type="checkbox"/> Airspace Areas (Other).....AIM3-5-1 – 3-5-6	<input type="checkbox"/> *TAF/METAR.....AIM 7-1-30/PTS I B
<input type="checkbox"/> Alternate Landing Areas.....CFI-G	<input type="checkbox"/> *Takeoff Planning.....GFH 12-5 – 12-6
<input type="checkbox"/> Ballast.....GFH 5-14 – 5-16	<input type="checkbox"/> *TFR's.....AIM 3-5-3
<input type="checkbox"/> *Components and Systems.....GFH 2-1 – 2-9	<input type="checkbox"/> Tow Rope Strength.....GFH 12-4 – 12-5
<input type="checkbox"/> CRM.....PHAK 2-4 – 2-5	<input type="checkbox"/> Traffic Advisory Practices.....AIM 4-1-9
<input type="checkbox"/> Flight Controls.....PHAK 6-1 – 6-12	<input type="checkbox"/> *W & B.....GFH 5-12 – 5-14, PTS I D, POH
<input type="checkbox"/> Ground Effect.....GFH 3-19	<input type="checkbox"/> *W & B.....PHAK 10-1 – 10-11
<input type="checkbox"/> *NOTAMS.....AIM 5-1-3	

PRE-SOLO FLIGHT MANEUVERS AND TASKS

<input type="checkbox"/> *Assembly/Disassembly.....GFH 6-2 – 6-4, App A	<input type="checkbox"/> *Slackline Recovery.....GFH 7-10/PTS IV D
<input type="checkbox"/> *Best Glide Speed.....3-8, 7-37, PTS V B	<input type="checkbox"/> *Slip to Land.....GFH 3-15 – 3-17PTS IV R
<input type="checkbox"/> *Broken Rope.....GFH 7-4 thru 7-6/PTS IV G	<input type="checkbox"/> *Spiral Dives.....GFH 8-15
<input type="checkbox"/> *Crosswind Landing.....GFH 7-25, PTS IV Q	<input type="checkbox"/> *Stalls..... GFH 3-17
<input type="checkbox"/> *Crosswind Takeoff.....GFH 7-5 – 7-6, PTS IV B	<input type="checkbox"/> *Stall Recognition/Recovery.... GFH 7-32 – 7-36
<input type="checkbox"/> *Downwind Landing.....GFH 7-27, PTS IV S	<input type="checkbox"/> *Stall Recognition/Recovery..... PTS IX B
<input type="checkbox"/> *Glider/Tow Plane Signals.....GFH 7-2/PTS IV G	<input type="checkbox"/> *Steep Turns.....GFH 7-31, PTS VII C
<input type="checkbox"/> *MCA.....GFH 7-31 – 7-32, PTS IX A	<input type="checkbox"/> *Thermalling.....GFH 10-2 – 10-10, PTS VI A
<input type="checkbox"/> *Min Sink Speed....GFH 3-8, 7-36 – 7-37, PTS V A	<input type="checkbox"/> *Tow Rope/Ring Inspection.....GFH 12-4

POST-SOLO ACADEMICS

<input type="checkbox"/> Airspeed Indicator Check.....PHAK 8-10	<input type="checkbox"/> Cross Country Flt Planning.....GFH 11-2 – 11-5
<input type="checkbox"/> Airspeed Indicator Markings.....PHAK 8-9	<input type="checkbox"/> Cross Country Techniques.....GFH 11-9 – 11-14
<input type="checkbox"/> Airspeed Limitations....GFH 4-6, PHAK 8-9 – 8-10	<input type="checkbox"/> Course Deviation.....GFH 11-14, PHAK 16-34
<input type="checkbox"/> Airspeed Types.....GFH 4-3 – 4-5, PHAK 8-8 – 8-9	<input type="checkbox"/> GPS.....AIM 1-1-17 pgs 587-588
<input type="checkbox"/> Altimeter.....GFH4-6 – 4-10	<input type="checkbox"/> GPS.....GFH 11-8, PHAK 3-13, 16-32 – 16-34
<input type="checkbox"/> Altimeter Check..... PHAK 8-7	<input type="checkbox"/> High Performance Glider Ops.....GFH 11-16
<input type="checkbox"/> Altitude Types...GFH 4-10 – 4-11, PHAK 8-6 – 8-7	<input type="checkbox"/> Lost Procedure...GFH 11-14 – 11-15, PHAK 16-34
<input type="checkbox"/> Atmosphere.....PHAK 11-2 – 11-3	<input type="checkbox"/> Navigation.....GFH 11-5 – 11-8
<input type="checkbox"/> Ballast.....GFH 5-14 – 5-16	<input type="checkbox"/> Total Energy System.....GFH 4-14 – 4-15
<input type="checkbox"/> CG and Performance..... GFH 5-12 – 5-15	<input type="checkbox"/> Variometer.....GFH 4-11 – 4-14
<input type="checkbox"/> Cross Country Aerotow.....GFH 12-10 – 12-11	<input type="checkbox"/> Water Ballast.....GFH 11-17

POST-SOLO FLIGHT MANEUVERS

<input type="checkbox"/> Accuracy Landings.....CFI-G	<input type="checkbox"/> Ridge Soaring.....GFH 10-9 thru 10-11/PTS VI B
<input type="checkbox"/> Box the Wake.....GFH 7-10 – 7-11, PTS IV E	<input type="checkbox"/> Speed to Fly.....GFH 7-37 – 7-38
<input type="checkbox"/> No Spoiler Approach/Landing.....CFI-G	<input type="checkbox"/> Spins.....GFH 3-17 – 3-19
<input type="checkbox"/> Off Field Landing.....GFH 8-18 – 8-20	<input type="checkbox"/> Unassisted Takeoff.....GFH 7-6
<input type="checkbox"/> Release Mechanism Malfunction.....GFH 12-12	

EMERGENCIES

<input type="checkbox"/> *Aerotow Emergencies.....GFH 8-8 – 8-13	<input type="checkbox"/> Off Field Landing.....CFI-G
<input type="checkbox"/> *Canopy Malfunctions.....GFH 8-21 – 8-22	<input type="checkbox"/> Off Field Landing.....GFH 8-18 – 8-20
<input type="checkbox"/> Canopy FoggedCFI-G	<input type="checkbox"/> Oxygen Emergencies.....CFI-G
<input type="checkbox"/> Communication (Distress).....AIM 6-3-1	<input type="checkbox"/> Oxygen System Malfunctions.....GFH 8-25, 8-30
<input type="checkbox"/> Comm Failure VFR.....AIM 4-2-13, 6-4-1c.2	<input type="checkbox"/> Parachute Inspection.....GFH 13-7
<input type="checkbox"/> Distress Procedures.....AIM 6-3-1 – 6-3-2	<input type="checkbox"/> Parachute Procedures.....CFI-G
<input type="checkbox"/> Drogue Chute Malfunctions.....GFH 8-25 – 8-26	<input type="checkbox"/> *Pilot Induced OscillationsGFH 8-2 – 8-4
<input type="checkbox"/> ELT.....AIM 6-2-4	<input type="checkbox"/> Pitot-Static Malfunctions.....GFH 8-20 - 8-21
<input type="checkbox"/> Emergency Assistance.....AIM 6-3-2	<input type="checkbox"/> Pitot-Static System (Blocked)...PHAK 8-10 – 8-12
<input type="checkbox"/> Emergency Condition.....AIM 6-1-2	<input type="checkbox"/> Release Emergencies.....GFH 12-12
<input type="checkbox"/> Emergency Descent.....CFI-G	<input type="checkbox"/> *Responsibility and Authority.....AIM 6-1-1
<input type="checkbox"/> Emer Equip & Survival Gear.....GFH 8-28 – 8-30	<input type="checkbox"/> Search and Rescue.....AIM 6-2-6
<input type="checkbox"/> Emergency Services.....AIM 6-2-1 – 6-2-2	<input type="checkbox"/> *Slackline.....GFH 8-13
<input type="checkbox"/> *Flt Control Malf (Primary).....GFH 8-22 – 8-24	<input type="checkbox"/> Spins.....GFH 3-17 – 3-19, 8-15 – 8-18
<input type="checkbox"/> *Flt Control Malf (Secondary)....GFH 8-24 – 8-25	<input type="checkbox"/> *Spiral Dives.....GFH 8-15
<input type="checkbox"/> *Flt Instrument Malfunctions.....GFH 8-20 – 8-21	<input type="checkbox"/> *Takeoff Emergencies.....GFH 12-11 – 12-12
<input type="checkbox"/> *Glider Induced Oscillations.....GFH 8-6 – 8-8	<input type="checkbox"/> *Towhook Malfunctions.....GFH 8-25
<input type="checkbox"/> Glider Problem.....GFH 12-12	<input type="checkbox"/> Transponder Ops and Comm Failure....AIM 6-4-2
<input type="checkbox"/> *Gust Induced Oscillations.....GFH 8-5 – 8-6	<input type="checkbox"/> VFR On Top.....GFH 9-18, CFI-G
<input type="checkbox"/> Immediate Release.....GFH 12-12	<input type="checkbox"/> *Visual Signals (In Flight).....GFH 7-3 – 7-4
<input type="checkbox"/> Landing Gear Malfunction.....GFH 8-22	<input type="checkbox"/> Water Ballast Malfunctions.....GFH 8-22
<input type="checkbox"/> Light Signals.....AIM 4-3-13	

HAZARDS TO FLIGHT AND AEROMED

<input type="checkbox"/> Air sickness, fatigue, stress...PHAK 17-12 – 17-13	<input type="checkbox"/> Middle ear and sinus problems.....PHAK 17-4
<input type="checkbox"/> Altitude and the Human Body...PHAK 12-6 – 12-7	<input type="checkbox"/> Physiological Factors.....GFH 13-4 – 13-7
<input type="checkbox"/> Bird Hazards.....AIM 7-4-1 – 7-4-6	<input type="checkbox"/> Pilot Deviations.....PHAK 14-30
<input type="checkbox"/> CO2 poisoning.....AIM 8-1-4, PHAK 17-12 – 17-13	<input type="checkbox"/> Potential Flight Hazards.....AIM 7-5-1 – 7-5-7
<input type="checkbox"/> Density Altitude PHAK.....11-3 – 11-5	<input type="checkbox"/> Potential Flight Hazards.....AIM 7-5-9 – 7-5-14
<input type="checkbox"/> Effects of altitude.....AIM 8-1-2	<input type="checkbox"/> Runway Confusion.....PHAK 14-31 – 14-32
<input type="checkbox"/> Hazardous attitudes.....GFH 13-2, PHAK 2-5	<input type="checkbox"/> Runway Incursion..... PHAK 14-30 – 14-3
<input type="checkbox"/> Hyperventilation in flight.....AIM 8-1-3	<input type="checkbox"/> Spatial disorientation.....PHAK 17-6 – 17-12
<input type="checkbox"/> Hyperventilation in flight.....PHAK 17-4 – 17-5	<input type="checkbox"/> *Wake Turb/Avoidance.....AIM 7-3-1 – 7-3-9
<input type="checkbox"/> *Hypoxia.....PHAK 17-3 – 17-5	<input type="checkbox"/> *Wake Turb/Avoidance.....PHAK 14-16 – 14-28
<input type="checkbox"/> Illusions in flight.....AIM 8-1-5	

HAZARDOUS WEATHER AND AVOIDANCE

<input type="checkbox"/> AIRMET.....PHAK 13-11 – 13-12, AIM 7-1-5	<input type="checkbox"/> Rotor Turbulence.....GFH 9-16 – 9-18
<input type="checkbox"/> Fog.....PHAK 12-15	<input type="checkbox"/> SIGMET.....PHAK 13-12 – 13-13, AIM 7-1-5
<input type="checkbox"/> Heavy Sink on Final.....CFI-G	<input type="checkbox"/> ThunderstormsAIM 7-1-28/29
<input type="checkbox"/> Icing.....GFH 3-5, PHAK 5-26, 12-24	<input type="checkbox"/> Thunderstorms.....GFH 9-10 – 9-14
<input type="checkbox"/> Lightning.....PHAK 12-15	<input type="checkbox"/> Thunderstorms.....PHAK 12-22 – 12-25
<input type="checkbox"/> *LLWS and Avoidance.....AIM 4-3-7, 7-1-24	<input type="checkbox"/> *Turbulence.....GFH 9-13 thru 9-17
<input type="checkbox"/> *LLWS and Avoidance.....PHAK 12-11	<input type="checkbox"/> VFR On Top.....GFH 9-18
<input type="checkbox"/> *Microburst.....AIM 7-1-26/GFH 9-14	

GENERAL METEOROLOGY

<input type="checkbox"/> *Air Masses/Fronts.....	PHAK 12-17 – 12-22	<input type="checkbox"/> *Coriolis Force.....	PHAK 12-3 – 12-4
<input type="checkbox"/> *Atmosphere.....	GFH 9-2 – 9-4	<input type="checkbox"/> *Effects of Obstructions.....	PHAK 12-8 – 12-11
<input type="checkbox"/> *Atmosphere.....	PHAK 12-2 – 12-3	<input type="checkbox"/> *Pressure.....	PHAK 12-4 – 12-5
<input type="checkbox"/> *Atmospheric Stability.....	PHAK 12-12 – 12-14	<input type="checkbox"/> *Wind and Currents.....	PHAK 12-7 – 12-8
<input type="checkbox"/> *Cloud, Precipitation.....	PHAK 12-14 – 12-17	<input type="checkbox"/> *Wind/Pressure Representation.....	PHAK 12-12

SOARING WEATHER

<input type="checkbox"/> Atmospheric Stability.....	GFH 9-7 – 9-9	<input type="checkbox"/> Lifted Index.....	GFH 9-12
<input type="checkbox"/> Cloud Streets.....	GFH 9-9	<input type="checkbox"/> Mountain Wave.....	GFH 9-16 – 9-19
<input type="checkbox"/> Convergence Lift.....	GFH 9-19 – 9-20	<input type="checkbox"/> Slope Weather.....	GFH 9-14 – 9-16
<input type="checkbox"/> X-Country Lift Sources.....	GFH 11-17	<input type="checkbox"/> Thermal Soaring Weather.....	GFH 9-6 – 9-7
<input type="checkbox"/> K Index.....	GFH 9-12 – 9-14	<input type="checkbox"/> Thermal Waves.....	GFH 9-9 – 9-10

WEATHER RESOURCES

<input type="checkbox"/> *Area Forecast (FA).....	PHAK 13-10 – 13-11	<input type="checkbox"/> Radar Weather Displays.....	PHAK 13-16 – 13-18
<input type="checkbox"/> Composite Moisture Stability Chart.....	GFH 9-24	<input type="checkbox"/> *TAF.....	PHAK 13-9
<input type="checkbox"/> Dr. Jack's Home Page.....	CFI-G	<input type="checkbox"/> *TAF/METAR.....	AIM 7-1-30/PTS I B
<input type="checkbox"/> FSS Weather Briefing.....	PHAK 13-5, AIM 7-1-4	<input type="checkbox"/> Weather Charts.....	PHAK 13-13 – 13-16
<input type="checkbox"/> LVVSA Home Page Links Tab.....	CFI-G	<input type="checkbox"/> *Winds/Temp Aloft.....	PHAK 13-13
<input type="checkbox"/> *METAR.....	PHAK 13-6 – 13-8		

IN FLIGHT WEATHER RESOURCES

<input type="checkbox"/> ASOS.....	AIM 7-1-11d, PHAK 13-2	<input type="checkbox"/> FSS.....	AIM 4-1-3, 7-1-2
<input type="checkbox"/> ATIS.....	AIM 4-1-8, 4-1-13, PHAK 14-5	<input type="checkbox"/> HIWAS.....	AIM 7-1-9, PHAK 13-4
<input type="checkbox"/> AWOS.....	AIM 7-1-11, PHAK 13-2	<input type="checkbox"/> PIREPS.....	AIM 7-1-19, PHAK 13-8
<input type="checkbox"/> FIS.....	AIM 7-1-10	<input type="checkbox"/> Weather avoidance assistance.....	AIM 7-1-13

SAFETY

<input type="checkbox"/> Aeronautical Decision Making...	PHAK 2-1 – 2-32	<input type="checkbox"/> Risk Assessment.....	PHAK 2-3 – 2-10
<input type="checkbox"/> Aeronautical Decision Making.....	GFH 13-10	<input type="checkbox"/> Risk Management.....	GFH 13-9 – 13-10
<input type="checkbox"/> CRM.....	PHAK 2-4	<input type="checkbox"/> Safety Reports.....	AIM 7-6-1 – 7-6-5
<input type="checkbox"/> Decision Making...GFH 13-10, PHAK 2-18 – 2-24		<input type="checkbox"/> * Situational Awareness.....	PHAK 2-24 – 2-32
<input type="checkbox"/> Human Factors/Behavior.....	PHAK 2-1 – 2-12	<input type="checkbox"/> SRM.....	PHAK 2-13 – 2-18
<input type="checkbox"/> LVVSA Home Page Safety Tab.....	CFI-G	<input type="checkbox"/> SSF flight training/safety programs.....	ssf.org
<input type="checkbox"/> Responsibility regarding club safety.....	CFI-G		