



Skystriders  
Light Sport Aviation LLC

## I. SOLO COURSE (Sport Pilot Stage 1) [Lesson Plans 1-7]

**General Description:** *This course is designed to earn the student the EAA or FAA Student Pilot certificate and to learn how to fly a legal FAA Part 103 single place powered parachute, or a legal light sport aircraft safely. This course can also be used as stage 1 in the Sport Pilot course. One of two approaches to the solo course is suggested. The primary approach is to use a two-seat trainer for lessons 1 and 4, then a part 103 legal ultralight for the three actual solo courses. Legally there is no training whatsoever required for solo in an ultralight, so our course goes way beyond this. We have also found that with a safe field and in good weather conditions students' solo confidently and safely in a one-seat ultralight. The second option is to use a two-seat trainer through lesson 4, with the instructor in the back seat. This is recommended only if the trainer is installed with dual controls. This second method is also recommended if the student is using this as the solo phase of their sport pilot training. The approach that the instructor chooses depends on many variables including the student, the type of field, the aircraft, and the weather.*

### Outline:

- a. Lesson Plan 1 Introductory Lesson
- b. Lesson Plan 2 Ground Handling  
*Preflight, Engine Start, Warm Up, Taxi, Simulated Takeoff, Simulated Landing*
- c. Lesson Plan 3 Chute Inflation  
*Chute Inflation and Deflations*
- d. Lesson Plan 4 Dual Flights  
*Dual Flight with instructor to prepare for first solo*
- e. Lesson Plan 5 First Solo  
*Initial Solo Flight*
- f. Lesson Plan 6 Second Solo  
*Second Solo, Maneuvers, Touch and Go Landings, Spot Landings*
- g. Lesson Plan 7 Third Solo  
*Full Review of Solo Course and Flight Leading to 90-Day Endorsement*

## **SOLO COURSE**

### **FLIGHT LESSON 1 [Dual Flight]**

#### **Objectives:**

- ❑ Become familiar with the sport of powered parachuting
- ❑ Learn about the required certificates, documents and other paperwork
- ❑ Become familiar with the vehicle or aircraft being used for training and all of its systems.
- ❑ Develop an understanding of the preflight procedures and preparation. ❑ Learn the function of the flight controls.

#### **Content:** [*Items to introduce during this lesson*]

- ❑ Legal aspects of PPC ultra lights
  - ❑ ○ FAA part 103
  - ❑ ○ Sport Pilot Overview
  - ❑ ○ Personal qualifications
- ❑ Liability Issues and Wavier
- ❑ Overview of the vehicle and its equipment and systems
- ❑ Safety orientation
  - ❑ ○ General safety of a powered parachute
  - ❑ ○ Engine failure
    - Roll over
    - Aborted takeoff procedure
- ❑ Overview of flight controls
- ❑ Overview of the flight plan
- ❑ In flight discussion and demonstration
  - ❑ ○ Normal climb and descent
  - ❑ ○ Normal turns
  - ❑ ○ Normal approaches
    - Simulated engine out (engine at idle)
    - Landing pattern and normal landing

#### **Post-flight Review and Discussion**

- ❑ As required to assure a basic understanding of the items presented in this lesson

#### **Completion Standards**

- ❑ Develop an understanding of the legal and practical aspects of the powered parachute ❑ Become familiar with the control systems and their use on the ground and in flight

#### **Time:**

- ❑ : 30 ground time/: 30 minute flight

#### **References:**

- ❑ **Roy's Powered Parachute Book (chpts. 1-8)**
- ❑ **ASA Test Prep (chpts 1-3)**
- ❑ EAA Logbook and waiver ❑ EAA "Part 103"

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

**SOLO FLIGHT COURSE**

## LESSON 2 [Ground Handling]

### OBJECTIVES:

- ❑ Develop an understanding of the preflight procedures and preparation.
- ❑ Become familiar with the vehicle being used for training and all of its systems.
- ❑ Learn to conduct the necessary preflight activities.
- ❑ Develop understanding and knowledge in engine start and warm up procedures.
- ❑ Learn safety procedures and field preparation tasks.
- ❑ Learn the function of the ground and flight controls.
- ❑ Develop skill with control of the throttle.
- ❑ Develop skill with takeoff and landing tasks (simulated)
- ❑ Learn about the required certificates, documents, and other paperwork.

### CONTENT [Items to Introduce during this lesson]

- ❑ Checklists and their proper usage.
- ❑ Preflight inspection procedures.
- ❑ Required certificates and documents.
- ❑ Vehicle servicing procedures.
- ❑ Operation of the vehicle systems.
- ❑ Check of installed equipment.
- ❑ Location of safety equipment.
- ❑ Procedure for engine starting and warm up.
- ❑ Communications procedures including hand signals and check of equipment. Lost communications procedures
- ❑ Taxiing.
- ❑ Before takeoff checklist.
- ❑ Procedures used for normal takeoff and climb.  
[Conduct multiple practice takeoff runs]
  - Half throttle
  - Ground steer straight ahead
  - Throttle back to avoid takeoff during chute check ○ Visually check and handle the chute  
(simulated)
    - Chute is overhead and centered
    - End cells are open
    - Lines are not tangled
    - Steering lines are free ○ Ground steer to stay centered under the chute  
(simulated)
  - Steer straight and full throttle (simulated)
  - Shutdown
    - Throttle back
    - Kill the magneto switches
    - Ground Steer
    - Pull the chute lines (simulated)
- ❑ Normal approach and landing. [Add simulated landing procedure at the end of simulated takeoff runs] ○ Sequential braking (flare)
  - ¼ brake, ½ brake, full brake
  - “Touchdown”
  - “Brakes off!”
  - Throttle Back
  - Kill Magneto switches

- Ground steer
  - Pull chute lines to deflate chute  After landing procedures.
- Parking and securing the vehicle.

**CONTENT [Items to Review During This Lesson]**

- FAR 103 and other applicable regulations.
- Sport Pilot regulations if applicable
- Local airport procedures and airspace rules.
- Vehicle flight characteristics and the operational limitations of the vehicle to be used in the solo.

**POSTFLIGHT REVIEW AND DISCUSSION:**

- As required to assure a basic understanding of the items presented in this lesson.

**COMPLETION STANDARDS:**

- Demonstrate a basic knowledge of the training vehicles systems.
- Develop an understanding of the proper preflight procedures to check all system operations.
- Become familiar with the control systems and their use on the ground and in flight.  Demonstrate basic skill in throttle control and ground steering.

**TIME:** As required.

**References:**

- Roy's Powered Parachute Book (chpts 9-12, 15)
- ASA Test Prep (chpts 4 & 8)

Documentation:

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

### LESSON PLAN 3 [Canopy Kiting]

#### OBJECTIVES:

- ❑ Continue learning correct procedures for preflight inspections and procedures.
- ❑ Develop additional understanding of the various preflight and ground operations.
- ❑ Gain an understanding of additional ground and flight procedures and maneuvers. ❑ Develop skill with chute inflations and deflations.

#### CONTENT: [Items to Introduce during this lesson]

- ❑ Additional equipment and items required for safe flight operations.
- ❑ Chute layout, and handling.
- ❑ Airport procedures.
- ❑ Ground handling in winds and wind determinations.
- ❑ Approaches and landings in various winds. *(discussion)*
- ❑ Traffic patterns
- ❑ Flare landings and power on landings. *(Discussion and simulation)*

#### CONTENT: [Items to Review during this lesson]

- ❑ Preflight inspection
- ❑ Required certificates, documents, and vehicle marking. ❑ Correct operation of the various vehicle systems. ❑ Positive exchange of flight controls *(if dual flight)* ❑ Proper use of checklists.
- ❑ Proper and safe engine starting procedures.
- ❑ Communications - radio and hand signals. Lost communications procedures.
- ❑ Canopy inspection, attachment and layout.
- ❑ Canopy inflation procedures.
  - *Multiple inflation runs to practice takeoff and landings*
  - Potential Lockout
    - Throttle back
    - Throttle forward more assertively ○ Potential Oscillation
    - Throttle back
    - As chute centers, throttle back normally ○ Normal Inflation
    - Chute is overhead and centered
    - End cells are opened
    - Lines are not tangled
- ❑ Taxiing.
- ❑ Before takeoff checks.
- ❑ Normal takeoff and climb. *(Discussion and simulation or practice if dual)* ❑ Straight and level flight. *(Discussion or practice if dual)*
  
- ❑ Normal climbs and descents. *(Discussion or practice if dual)*
- ❑ Medium banked turns in both directions. *(Discussion or practice if dual)*
- ❑ Normal approach and landing. *(Discussion or practice if dual)*
- ❑ Canopy flare procedures. *(Discussion or practice if dual)*
- ❑ Canopy depressurization procedures. *(Discussion or practice if dual)* ○ Throttle back
  - Kill Magnetos ○ Steer under chute ○ Pull chute lines

- After landing procedures.
- After landing inspection and storage of canopy.
- Parking and securing the vehicle.

**POSTFLIGHT REVIEW AND DISCUSSION:**

- As required to assure an understanding of the items presented in this and previous lessons.   
Resolve student questions and concerns.

**COMPLETION STANDARDS:**

- Student should display increasing proficiency conducting preflight activities, ground operations, and inflight attitude control capability.
- Student should be able to perform takeoffs with the assistance of the instructor. *(On dual flights)*   
Student should be able to maintain altitude within + or - 250 feet. *(On dual flights)*  Student should perform normal chute inflations and correct for normal errors.
- The student has received at least an 80% on the Pre-solo Written Examination and all missed questions have been reviewed.

**TIME:** As required.

**References:**

- Roy's Powered Parachute Book (chpts 16-19)
- ASA Test Prep (chpts 5 & 11)

Documentation:

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **LESSON PLAN 4 & 5 [Second Dual Flight and First Solo]**

The previous lesson plan(s) should be repeated until the instructor and student are confident of the student's skill and proficiency with vehicle control systems. The instructor has three options as the student approaches first solo. One approach, assuming the vehicle is equipped with dual control systems, is to now have the student fly the front seat while the instructor flies the rear seat. Successive dual flight lessons can be conducted until the instructor is confident of the student's ability to safely control the aircraft through a takeoff, circuit of the field, low approaches and a flare landing. The normal course for WPPA instructors teaching the ultralight course is to proceed to solo the student in the one seat ultralight with the student equipped with a two-way radio. This method should be used when the field is of sufficient size, the winds calm and when the student has shown competency in completion of the previous lesson plans. The instructor should consider another dual flight with the student in the back seat observing the instructor fly through the solo tasks, particularly when there has been more than a few weeks between the first flight lesson and the first solo lesson.

### **OBJECTIVES:**

- Review with the student basic maneuvers.
- Review with the student traffic pattern and local airport operations.
- Introduce the student to stalls and stall recognition.
- Introduce the student to canopy depressurization causes and avoidance procedures.
- Develop a greater understanding of basic flight maneuvers and procedures, canopy layout and rigging, takeoff, traffic pattern operations, and landing.
- Safely complete first solo flight in part 103 ultralight or legal light sport aircraft.

### **CONTENT:** Items for preflight discussion with student.

- Preflight planning, vehicle systems, engine starting and run up procedures.
- Situational awareness.
- Visual scanning procedures and collision avoidance techniques.
- Wind shears and wake and mechanical turbulence.
- Review all information with the student to establish readiness for the first supervised solo.
- Resolve any questions or concerns.
- Explain what will be expected during the first solo and exactly what the student is expected to accomplish.

### **CONTENT:** Items to be introduced during this lesson.

- Normal Climbs and descents.
- 360 degree turns.
- Low approaches.
- Flare landing

### **CONTENT:** Items to be reviewed during this lesson.

- Proper use of checklists.
- Vehicle servicing.
- Preflight vehicle and canopy inspection.
- Proper engine starting and warm-up procedures.
- Radio communication and hand signals. Lost communications procedures.
- Traffic pattern procedures.



- ❑ Avoiding other aircraft.
- ❑ Canopy layout.
- ❑ Canopy inflation.
- ❑ Before takeoff checklist.
- ❑ Normal takeoff and climb.
- ❑ ○ Climb to safe altitude and turns to put over safe training area.
- ❑ Normal turns
- ❑ ○ Full 360 degree turns in both directions
- ❑ Canopy flare
  - At sufficiently safe altitude (500' or higher)
  - Track straight ahead while instructor calls ¼, ½ then full brakes ❑ Descents and normal approach and landing.
  - Talk student through multiple approaches to field at successively lower altitude ○ SWAT Technique on base leg and final
    - “S” put your hand on the stick
    - “W” straighten the wheel
    - “A” plan your approach- -pick your touchdown point
    - “T” control your approach with smooth throttle ❑ Canopy flare and ground control.
  - After student has demonstrated ability to maintain straight track on landing talk the student through the flare landing. “1/4, ....then ½ .....then full brakes (if required)” ○ “Touchdown” ○ “Brakes off” ○ Throttle back ○ Kill the magneto switches ○ Steer straight under the chute ○ Pull the lines
- ❑ Canopy post flight inspection and storage.
- ❑ Parking and securing the vehicle.

### **POSTFLIGHT REVIEW AND DISCUSSION:**

- ❑ As required to assure a basic understanding of the items presented in this lesson.

### **COMPLETION STANDARDS:**

- ❑ Student can display proficiency in basic flight control and can perform unassisted takeoffs and landings with minimal instructor input.
- ❑ Student will display correct traffic pattern operations.
- ❑ Student should be able to maintain altitude of  $\pm 250$  feet during the performance of the basic maneuvers.
- ❑ Student should demonstrate ability to track straight and within designated runway boundaries on low approaches.
- ❑ The student successfully completes the first solo.

**TIME:** As required.

### **References:**

- ❑ Roy's Powered Parachute Book (Review chpts. 1-19)
- ❑ ASA Test Prep (Review chpts. 1-5)

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **LESSON PLAN 6 /Second Solo/**

The next two solo flights in a one-seat ultralight or legal light sport aircraft are designed to build the student's confidence and skill in basic maneuvers and handling of the vehicle. The instructor should continue supervising solo flights of approximately: 30 until the instructor is confident to endorse the student for continued solo flights under specific conditions. The instructor will endorse the student logbook to fly at certain locations, in a specific vehicle, in limited winds for no more than 90 days. Remember, if the student is flying a true part 103 vehicle this endorsement and ongoing training is not legally required.

**CONTENT:** Items for preflight discussion in this lesson.

- ❑ Avoidance of wind shears and wake turbulence.
- ❑ Responsibilities of the Pilot in Command.
- ❑ Cockpit workload management.
- ❑ Emergency procedures.
- ❑ Equipment malfunctions.

**CONTENT:** Items, which will be introduced during this lesson.

- ❑ Various vehicle system and equipment malfunctions.
- ❑ Emergency procedures.
  - Emphasize the importance of "flying the vehicle" as first priority during any emergency.
  - Discuss procedures with warning light or other engine or system problems.
  - Discuss weather or wind related emergencies.
- ❑ Emergency descents.
- ❑ Emergency approaches and landings.
  - From safe altitude (500' or above), and over safe field, have the student throttle back to full idle and practice simulated engine off approach.
  - With sufficient altitude have student apply "brakes" to demonstrate ability to lose altitude to land at specific point.
- ❑ Climbing and descending turns.
  - Talk student through various turns at different power settings
- ❑ Steep turns
  - Discuss ability to steer with hands on lines, but introduce only as an emergency technique
  - Turns to a heading.
- ❑ Use of canopy flare techniques in flight.
  - Conduct low approach with ¼ flare and power through the approach

**CONTENT:** Items, which will be reviewed during this lesson.

- ❑ Airport operations, marking, and lighting.
- ❑ Normal takeoffs and landings.
  - Talk student through more low approaches and touch and go landings and takeoffs
  - Collision avoidance.
- ❑ Traffic patterns.

**POSTFLIGHT REVIEW AND DISCUSSION:**

- ❑ As required to assure an understanding of the items presented in this lesson.
- ❑ As required to resolve any student questions or misunderstandings.

**COMPLETION STANDARDS:**

- ❑ Student will demonstrate proficiency in coordinated flight while performing the basic flight maneuvers.
- ❑ Student can perform unassisted takeoffs and landings.
- ❑ Student will be able to demonstrate proper traffic pattern operations and communications. ❑ Student demonstrates an understanding of emergency procedures.

**TIME:** As required.

**References:**

- ❑ Roy's Powered Parachute Book (chpts 23-24)
- ❑ ASA Test Prep (chpt. 4)

**Documentation:**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## SOLO COURSE

### **LESSON PLAN 7 [Third Solo]**

During this lesson the instructor should observe the student through the entire process of readying the vehicle for flight and conducting a safe flight and post flight, with minimal input from the instructor. At the end of this lesson, or subsequent solo lessons, the instructor will endorse the student for ongoing solo flights without the instructor having to be with the student. The instructor may introduce some advanced techniques during this lesson.

#### **OBJECTIVES:**

- ❑ Develop proficiency in the basic flight maneuvers.
- ❑ Introduction of ground reference maneuvers.
- ❑ Develop proficiency in emergency procedures and the conduct of emergency landings.
- ❑ Develop sufficient proficiency and skill in all aspects of operating the part 103 vehicle so that ongoing solo flights without the instructor's presence will be safe

**CONTENT:** Items for preflight discussion in this lesson.

- ❑ Situational awareness.
- ❑ Use of realistic distractions.
- ❑ Determining wind conditions, direction, and velocity. ❑ Techniques for crosswind landings and takeoffs.

**CONTENT:** Items to be introduced during this lesson.

- ❑ Rectangular courses.
- ❑ Spot landings
- ❑ Taxi with canopy inflated.
  - ❑ Assuming sufficient field space and appropriate safe wind conditions have the student taxi with chute inflated, after last landing.
    - ❑ Have student practice safe ground turns with canopy inflated.
- ❑ Crosswind approach
  - ❑ This should be done with minimal crosswind component and to practice the approach only (assuming your field is set up to avoid landing in crosswinds)

**CONTENT:** Items to be reviewed during this lesson.

- ❑ Emergency procedures.
- ❑ Emergency descents.
- ❑ Emergency approaches and landings.
  - ❑ Talk student through high approach with throttle to idle, simulating engine off.
  - ❑ Insure that student throttles up in sufficient time to make a safe low approach.
- ❑ Normal takeoffs and landings.
  - ❑ Using cones or other visual device, talk student through approach with power to land at designated point.
- ❑ Approach obstructions and avoidance.

**POSTFLIGHT REVIEW AND DISCUSSION:**

- As required to assure competence in the understanding and performance of the maneuvers in this lesson.
- Resolve all student questions and concerns.

**COMPLETION STANDARDS:**

- The student should display proficiency in coordinated flight during the performance of basic maneuvers.
- Student performs unassisted takeoffs and landings.
- Student can demonstrate correct traffic pattern procedures and both radio and hand signal communications.
- Student can demonstrate that heading can be maintained within  $\pm 15^\circ$  and altitude within  $\pm 225$  feet.
- Student demonstrates ability to handle the vehicle safely using normal approaches and during steep approaches.  Student demonstrates ability to land within 25' of a designated point.  Student demonstrates ability to taxi safely with the canopy inflated.

**TIME:** As required.

**References:**

- Roy's Powered Parachute Book (chpt 25)
- ASA Test Prep (chpt. 4)

**Documentation:**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## II. SPORT PILOT COURSE (Sport Pilot Stage 2) [Lesson Plans 8-13]

**General Description:** *This course is designed to move the student from supervised solos to earning their sport pilot license. The lesson plans provide for minimum required hours to qualify for the sport pilot practical test. The student should be simultaneously working on the ground school lessons designed to pass the sport pilot written test.*

### Outline:

- a. Lesson Plan 8 Performance and Ground Reference Maneuvers  
*Dual flight and solo practice of required sport pilot maneuvers*
- b. Lesson Plan 9 Takeoffs and Landings  
*Dual flights and practice flying at gross weights. Precision landings.*
- c. Lesson Plan 10 Cross Country Dual  
*Ground instruction and dual cross- country training, lost procedures, diversion.*
- d. Lesson Plan 11 Solo Cross Country  
*Supervised solo cross country and endorsements*
- e. Lesson Plan 12 Mock Test  
*Mock test for ground portion of the sport pilot practical test*
- f. Lesson Plan 13 Mock Flight  
*Mock flight test to prepare for the sport pilot practical test, and endorsements*

## **SPORT PILOT**

### **LESSON PLAN #8 Flight Lesson Maneuvers**

#### **OBJECTIVES:**

The student will be introduced to performance and ground reference maneuvers. Repeated dual flights and solo flights practicing this lesson are required until each maneuver has been demonstrated, practiced and performed within the practical test standards.

#### **CONTENT:**

##### **Review:**

- Pre-flight
- Wx planning
- Normal takeoff and departure
- Normal landing and post-flight

##### **New**

- Airport Pattern
- Purpose of maneuvers
- Safety and Aeronautical Decision Making
  
- 360 Degree Constant Altitude Turn
  - Choosing the area
  - Clearing the airspace
  - Heading
  - Altitude
- Rectangular Course
  - Choosing the area
  - Clearing the airspace
    - Wind speed and direction Controlling track
    - Entry
    - Altitude
- S-Turns
  - Choosing the area
  - Clearing the airspace
    - Wind speed and direction Controlling track
    - Entry
    - Controlling altitude
- Turn About a Point
  - Choosing the area
  - Clearing the airspace
    - Wind speed and direction Controlling track
    - Entry
    - Controlling altitude

#### **COMPLETION STANDARDS**



- ❑ Heading control within 10 degrees
- ❑ Student maintains altitude with 100' while performing maneuvers

**REFERENCES**

- ❑ Roy's Powered Parachute Book (chpt 20)
- ❑ ASA Test Prep (chpt. 4)

**DOCUMENTATION:**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **SPORT PILOT COURSE**

### **FLIGHT LESSON 9 ADVANCED TAKEOFFS AND LANDINGS**

#### **OBJECTIVE:**

The student will become proficient in flying the aircraft at gross weight with more precision than that required during initial solo takeoffs and landings, and will develop proficiency to handle a variety of emergency situations. This lesson will be completed dual and solo until student meets completion standards.

#### **CONTENT:**

##### **Review:**

- Pre-Flight
- Sole manipulator of controls
- Warm-Up and Canopy Layout
- Recognize and remedy canopy line throughs and line twists
- Normal takeoff
- Pattern
- Radio communications
- Post-flight procedures

##### **New**

- Low approaches and use of brakes and throttle to control altitude
- Aborted landing-Go Around
- Power on landing technique
- Landing to a spot (landing between two cones)
- Landing in confined area (landing in zone of four cones)
- Obstacle Landings
- Steep approach
- Simulated engine out
- Approach and recover with power for go around
- Approach to landing without use of power
- Cross wind takeoff and Landing Procedures
  - o Taxi to develop proficiency to steer canopy over the cart
  - o Cross wind limits
  - o Cross wind takeoff and landing technique

#### **COMPLETION STANDARDS:**

- Student controls altitude within 100' and headings within 10 degrees
- Student is able to land at designated spot within 50'
- Student shows proficiency in variety of angle of approaches, power on or at idle, and is able to land smoothly solo or at near gross weights

#### **REFERENCES**

- Roy's Powered Parachute Book (chpts 17 & 19)
- ASA Test Prep (chpt. 4)

#### **DOCUMENTATION:**

**SPORT PILOT COURSE**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **SPORT PILOT COURSE**

### **FLIGHT LESSON 10 DUAL CROSS COUNTRY**

#### **OBJECTIVE:**

The student will develop proficiency in planning and flying cross-country and obtain the required endorsements for solo cross-country

#### **CONTENT:**

##### **New**

- Cross Country Planning
- Weather
- Plotting course
- Flight Log distance, time, fuel (reserves)
- Use of Sectional Chart
- Airspace
- Restricted Airspace
- Minimum Altitudes
- Cross Country Flight
- Pilotage-Use of Checkpoints
- Radio communications
- Use of GPS
- Diversion Procedures
- Lost Procedures
- Enroute Emergencies ○ Engine issues ○ Instrument Issues ○ Propeller and other issues
- Endorsements Required for Solo Cross Country

#### **COMPLETION STANDARDS:**

This lesson is complete when student is competent to conduct solo cross country operations and obtains endorsements required for the first solo cross country

#### **REFERENCES:**

- Roy's Powered Parachute Book (chpts. 21 & 22)
- ASA Test Prep (chpts 21 & 22)

#### **DOCUMENTATION:**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **SPORT PILOT COURSE**

### **FLIGHT LESSON 11 SOLO CROSS COUNTRY**

#### **OBJECTIVE:**

The student will complete all of the activities included in the dual cross-country lesson by themselves, including a solo flight with a landing at an airport at least 10 miles from the takeoff point, and return to destination.

#### **CONTENT**

##### **Review:**

- Cross Country Planning
- Weather
- Plotting course
- Flight Log distance, time, fuel (reserves)
- Use of Sectional Chart
- Airspace
- Restricted Airspace
- Minimum Altitudes
- Cross Country Flight
- Pilotage-Use of Checkpoints
- Radio communications
- Use of GPS
- Diversion Procedures
- Lost Procedures
- Enroute Emergencies
  - o Engine issues
  - o Instrument Issues
  - o Propeller and other issues

##### **New:**

- ADM Student evaluates weather, pilot and aircraft and makes competent go-no go decision
  
- Student completes all planning consistent with the practical test standards  Student safely completes the solo cross country flight

#### **REFERENCES:**

- Roy's Powered Parachute Book (chpts. 13 & 14, 18, 25)
- ASA Test Prep (chpts. 6 & 7)

#### **DOCUMENTATION:**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **SPORT PILOT COURSE**

### **FLIGHT LESSON 12 MOCK PRACTICAL TEST GROUND PORTION**

#### **OBJECTIVES:**

The student will exhibit sufficient knowledge to pass the ground portion of the Sport Pilot Practical Test

#### **CONTENT:**

Instructor plays role of examiner and questions in area of operation 1 to cover each of the practical test standards:

- Certificates and Documents
- Airworthiness Requirements
- Weather Information
- Cross-Country Flight Planning
- National Airspace System
- Operations of Systems
- Aeromedical Factors
- Performance and Limitations
- Principles of Flight

#### **COMPLETION STANDARDS**

- Student demonstrates knowledge required to pass the ground portion of the Sport Pilot Practical Test

#### **REFERENCES:**

- Roy's Powered Parachute Book (Review)
- Sport Pilot PTS

#### **DOCUMENTATION:**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_

## **SPORT PILOT COURSE**

### **FLIGHT LESSON 13 MOCK FLIGHT TEST**

#### **OBJECTIVE:**

Student will be prepared to take the Sport Pilot Practical test and earn their sport pilot license.

#### **CONTENT:**

- Special Emphasis Areas
- Preflight Procedures
- Canopy Layout
- Engine Warm up and Starting
- Cockpit Management
- Taxiing (Canopy Inflated)
- Before Takeoff Check
- Radio Communications and ATC Light Signals
- Traffic patterns
- Airport Operations
- Normal Takeoff and Climb
- Normal Approach and Landing
- Go-Around/Rejected Landing
- Constant Altitude Turn
- Rectangular Course
- S-Turn
- Turn About a Point
- Pilotage and Dead Reckoning
- Diversion
- Lost Procedure
- Emergency Approach and Landing (Simulated)
- System and Equipment Malfunctions
- Emergency Equipment and Survival Gear
- After Landing, Parking and Securing

#### **COMPLETION STANDARDS**

- Student demonstrates knowledge and skill within the defined practical test standards  Student is issued endorsement to take the sport pilot practical test

#### **POST-FLIGHT DISCUSSION AND REVIEW**

As required to assure a basic understanding of the items presented in this lesson

#### **REFERENCES:**

- Roy's Powered Parachute Book (Review)
- Sport Pilot PTS

**SPORT PILOT COURSE**

**DOCUMENTATION**

Date Lesson completed \_\_\_\_\_

Instructor: \_\_\_\_\_

Student: \_\_\_\_\_



**SPORT PILOT COURSE**