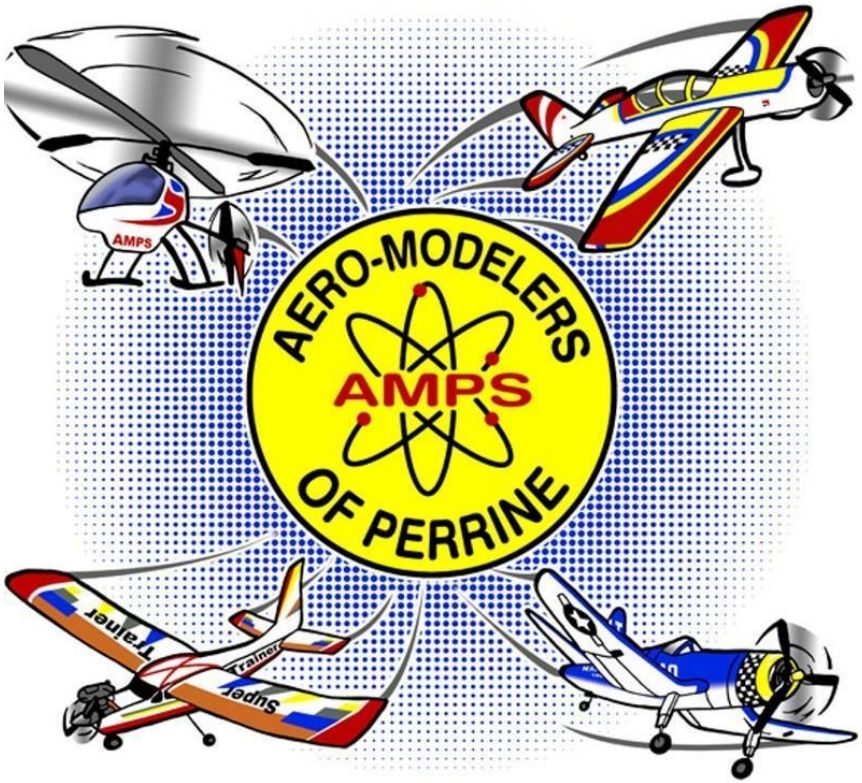
# *AERO MODELERS OF PERRINE 2012*




# STUDENT PILOT
# AIRPLANE FLIGHT INSTRUCTION MANUAL

# President's Welcome

Welcome to the Aero Modelers of Perrine (AMPS) training program. The AMPS club is happy to train any new or current member who wants to learn a new discipline.

As a new member wanting to learn Radio Controlled flight, you will likely have many questions. You will find this booklet an invaluable resource for answering most of your questions. This booklet also contains the training syllabus that you and your instructor will use during your training period. The syllabus will take you from your first flight to your solo flight and beyond.

Another important resource available to you is the club members. You will find that radio control enthusiasts are a very friendly group and are more than willing to help. I recommend you meet and introduce yourself to as many members as possible. You'll generate many new friendships.

Most importantly, remember to have fun.

Your AMPS President

| **Contact one of the instructors listed below to arrange for your flight training** | | |
|---|---|---|
| **Juan Vallejo** | 786-293-6278 | Jucava@yahoo.com |

# AMPS AIRPLANE STUDENT PILOT TRAINING LOG

**Student: _____ Instructor: _____**

| Objectives | Date Completed | Instructor | Remarks |
|---|---|---|---|
| **Objective 1: Preflight** | | | |
| Obtain a copy of the AMA and AMPS rules and review them with instructor | | | |
| Learn to ensure that transmitter, receiver and/or electric motor batteries are fully charged, and perform battery checks regularly. | | | |
| Review and learn about airplane main flight systems pitch, roll, yaw, lift drag, thrust and gravity. | | | |
| Learn to identify the parts of the airplane by name to check each control surface for proper installation and movement. | | | |
| Learn to identify the active vs. inactive runways and their proper usage. | | | |
| Acquaint student with procedure for claiming frequency. | | | |
| Learn about proper radio range check procedure with either 72 MHz or 2.4 GHz radio systems. | | | |
| Understand and identify start up areas, pilot stations and taxiways. | | | |
| **Objective 2: Engine Start and Pre-flight** | | | |
| Gain knowledge of support equipment: fuel , fuel pump , Chicken sticks/starters and battery chargers. | | | |

| Objectives | Date Completed | Instructor | Remarks |
|---|---|---|---|
| Learn proper glow/gas fuel engine startup procedure, and/or electric motor battery connection. Understand legal and illegal engine start up locations. | | | |
| Get acquainted with proper method for moving airplane to flight line. | | | |
| **Objective 3: Flying**<br>**Note**: Instructor will take-off and bring airplane to safe flying altitude. Buddy-Bo be used for instruction. | | | |
| Discuss with instructor proper use of each flight surface and how each affects flight. | | | |
| Learn to maintain proper altitude and heading. | | | |
| Understand the difference between the uses of the rudder vs. the ailerons. Use each to perform turns. | | | |
| Demonstrate proper use of the elevator by changing altitude up and down. | | | |
| Learn to fly up-wind and down wind. | | | |
| **Objective 4: Take-off** | | | |
| Discuss proper take-off procedures with instructor. | | | |
| Learn to position airplane at taxiway and taxi to runway. | | | |
| Gain take-off experience by completing a full take-off to proper altitude. | | | |
| Get acquainted with proper take-off to level flight procedures. | | | |

| Objectives | Date Completed | Instructor | Remarks |
|---|---|---|---|
| **Objective 5: Landing**<br>**Note**: Instructor will position airplane at proper heading and altitude for landing. | | | |
| Discuss proper landing procedures with instructor. | | | |
| Learn to approach runway at safe distance, heading and altitude. | | | |
| Learn to lower altitude to complete touch down. | | | |
| Get acquainted with down-wind, base and final phases of landing. Learn to complete a full landing. | | | |
| **Objective 6: Flying** | | | |
| Learn to complete a full flight from engine start-up, taxing to runway, take-off, level flight, landing, and engine shut-down. | | | |
| Get acquainted with flying a square pattern from left to right and from right to left. | | | |
| Understand and complete horizontal figure 8 maneuvers while maintaining proper heading and altitude. | | | |
| **Objective 7: Other Flying Maneuvers** | | | |
| With the airplane flying straight and level, learn to complete a loop while maintaining proper heading, speed and altitude. | | | |
| With the airplane flying straight and level, learn to complete a roll while maintaining proper heading, speed and altitude. | | | |
| With the airplane flying straight and level, learn to do a simulated dead-stick landing. From a safe altitude bring engine to idle and glide back to runway without changing throttle speed. | | | |

**Additional Notes:**

**Things to work on:**

**Recommended References:**

**AMA Newcomers' Guide: http://www.modelaircraft.org/files/education/docs/newcomerguide.pdf**
**Engine / Propeller Safety Precautions: http://www.amps-rc.com/Safety/SafetyFirst.htm**

# AIRPLANE FLIGHT TRAINING COMPLETION CERTIFICATE

Student Pilot Name (Printed): _____ AMA# _____

Instructor Name (Printed): _____ AMA# _____

Instructor Signature: _____ Date: _____

Date of Completion: _____

Upon completion of your flight training, mail this completed document (all pages) along with the Flight Proficiency Test and AMPS Field Rules Test (all pages) with all appropriate signatures to:

**Aero Modelers of Perrine (AMPS)**
**4956 SW 154 Court**
**Miami, FL 33185**

**Notes**:

1. You may not begin flying solo until you have passed the Flight Proficiency Test and the AMPS Field Rules Test. This is a violation of club rules and may jeopardize your future membership in the club.
2. Your flight instructor may ***NOT*** administer the Flight Proficiency and AMPS Field Rules Tests.

# AMPS FIELD RULES TEST

| Question | Y/N |
|---|---|
| **1.** Only Current AMPS members and their guests may fly at the field. | |
| **2.** The maximum number of concurrently flying aircraft is six (6). | |
| **3.** Landing Aircraft will always have the right of way; dead stick aircraft will have the first priority. | |
| **4.** The covered Pit area can be used for engine starting and running. | |
| **5.** Children are not allowed in the pit area unless they are AMPS Junior members. Children must always be accompanied by an adult. | |
| **6.** Flying will be suspended while field maintenance workers are performing work on the runways. | |
| **7.** You will not be covered by AMA insurance if you fail to follow AMA and/or AMPS safety rules. | |
| **8.** Prospective members are not required to take the Flight Proficiency Test. | |
| **9.** Walking on the active runway must be loudly and clearly announced before stepping onto the runway. | |
| **10.** Flying over field maintenance or farm workers is acceptable. | |
| **11.** Flying shall be limited to 15 minutes per flight. | |
| **12.** All airplane flying shall be conducted from the designated flight stations. | |
| **13.** Low airplane flying over the active runway is acceptable. | |
| **14.** Alcoholic beverages are allowed on the field but not during flying. | |
| **15.** Never leave an aircraft unattended with the engine running | |
| **16.** Smoking is permitted near gasoline powered Aircraft. | |
| **17.** Pilots can leave their airplanes on the start up tables for any length of time. | |
| **18.** What is the most important decision any pilot can make? _____ | |

***** Fourteen (14) correct answers required to pass *****

# AMPS AIRPLANE FLIGHT PROFICIENCY TEST

| Question | Y/N |
|---|---|
| **1.** Pilot demonstrates knowledge of pre-flight protocols (uses engine starting areas, taxis where appropriate, announces take off, stands in pilot station, etc.) | |
| **2.** Pilot demonstrates good control of aircraft (appropriate takeoff, maintains aircraft inside flight zone, does not violate runway rules, announces landing, appropriate landing, etc.) | |
| **3.** Pilot demonstrates knowledge of post-flight protocols (taxis where appropriate, follows proper engine turn off procedures, etc.) | |

***** Three (3) correct answers required to pass *****

I, _____ (Check Pilot Name – printed), AMA# _____, certify that _____ (Prospective Member Name – printed) has satisfactorily completed the Field Rules and Flight Proficiency Tests.

Check Pilot Signature: _____ Date: _____

**Notes**:

1. You may not begin flying solo at AMPS until you have passed the ***AMPS Field Rules Test*** and the ***Flight Proficiency Test***. This is a violation of club rules and may jeopardize your club membership.
2. When this document is used to certify a student after completing his/her training, the Instructor may **not** act as Check Pilot.
3. Both tests must be passed in order to be certified as a solo pilot.