

# Tarheel R/C Flyers

## R/C Solo Flight Requirements

### QUALIFICATIONS

1. Must be a current **AMA** member.
2. Must be a member of the **Tarheel R/C Flyers Club**.
3. Must be furnished a copy of the safety rules and have an understanding of same.
4. Must pass a verbal quiz concerning the **AMA National Model Aircraft Safety Code** asked by a flight instructor. A minimum of four questions will be asked in the **GENERAL** category of eleven (11) items. In the **RADIO CONTROL** section, a minimum of two questions will be asked of the five (5) available.

### STUDENT SOLO FLIGHT

#### A. PRE-FLIGHT CHECKS

1. Must have the correct frequency pin prior to turning on transmitter if transmitting on 72 or 53 MHz. (2.4 GHz is the exception). Student must understand how important the frequency board is and how to use it!
2. Must perform an initial check of:
  - Servo linkages.
  - All bolts or rubber bands are tight and wing is secure.
  - Controls move in the correct position.
  - All control hinges are sound and all parts (canopy, wheel pants, etc.) are securely attached.
  - Batteries (transmitter & receiver) are fully charged.
  - Transmitter turned on **first**, then the receiver!
  - Range check radio, engine running with someone holding or in starting blocks.
3. Must perform a proper starting sequence of:
  - Using a starter, chicken stick or a gloved hand.
  - A firmly attached glow plug or ignition safety switch on gas engines.
  - Safe and proper arming of motor if flying electric powered aircraft.
  - Plane is anchored or held by another person.
  - No loose clothing or neck straps that could get into the propeller.
  - Motor test/rev-up is away from pit and spectator area.
  - Any carburetor adjustments must be made behind the propeller, no reaching over.

## **B. ACTUAL FLIGHT**

1. **TAKE OFF** - Must be into the wind and reasonably straight.
2. **CLIMB OUT** - Must be reasonably straight and steady (wind conditions & aircraft design to be factors in this judgment).
3. **INITIAL TURN** - Must be away from pit/spectator area.
4. **FLIGHT** - 150 to 400 feet in height, rectangular in nature while maintaining constant altitude. (Width and length of pattern are not factors)
5. Must be able to make left and right turns consistently while maintaining altitude.
6. **LANDING** - Into the wind, reasonably level and straight.
7. **TOUCHDOWN** - Anywhere on the runway.
8. **Three** consecutive full stop takeoffs and landings.

## **C. POST FLIGHT**

1. Plane back to pit area – preferably hand carried (NO taxiing in the pit area).
2. Receiver off **first**, then transmitter turned off.
3. Frequency pin returned to the board.
4. Informed by the Flight Instructor if student passed or failed.

### **FAILURES**

1. Flying over pit/spectator area or crossing the established straight line.
2. Taxiing into the pit or spectator area.
3. No pre-flight check.
4. Careless or reckless operation of the aircraft in the air or on the ground.

### **CERTIFICATION PANEL**

5. Student's Flight Instructor.
6. Another Club Flight Instructor.

### **AWARDING OF THE R/C PILOT CERTIFICATE AND PATCH**

1. A pilot certificate and patch will be presented awarded at the next club meeting following the successful solo flight.
2. Patch will be awarded by the Student's Flight Instructor.

**HAPPY LANDINGS!**

**10/1/2008**