

Phantom Flyers RC Decathlon of RC 2025

- What is it?
 - **Complete, in front of witnesses a series of 10 events/tasks selected from a list of 20.** Not all but most are flying
 - **Non-competitive and is completed at your convenience** any time during the 2025 flying season but **will require multiple flying sessions**
 - **It can be completed by any RC pilot skill level from beginner on up using pretty much any RC plane**
- Why?
 - To go to the field with a purpose and have some fun
 - Foster club camaraderie - meeting members you haven't met before or haven't seen for a while
- **What's in it for you? *Glory, Riches, Respect, Happiness!***

No wait, that's for something else, never mind. This just for fun.

2025 Decathlon of RC Rules

1. Contestants must be a club member
2. Keep a Decathlon of RC flight log using the provided form
3. Fly using any RC plane(s) you wish flying at our field
4. Complete any 10 events/tasks from the events list of 20 (some are easy, some are not), do them in any order, but no repeats
5. Event/Task 1 must be completed by all contestants at some point
6. Fly only one event per flight, (10 independent flights are required and no more than 2 events can be completed in one day)
7. Completion of each event must be witnessed by 2 other club members
Each witness can be used for a maximum of 2 events
8. Events are pass/fail - witnesses must agree you completed the event
9. Must be started no earlier than the day of the first club meeting at the field and completed no later than the day of the October club meeting
10. Every flight must conclude with a successful landing (must repair any damage at the field and fly another flight, or event does not count)
11. May take-off or land on either the runway or grass
12. All club field safety rules are in effect
13. There will be no quantitative scoring or ranking of flyers – “Do or do not”, Yoda

Phantom Flyers Decathlon of RC 2025 Flight Log



Pilot

Event Number	Event Name	Date	Airplane	Witness 1	Witness 2
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Print out this sheet or contact Ed White to get a blank log sheet.

Decathlon of RC Events List (choose 10)

1. **MANDATORY FOR ALL COMPETITORS:** Demonstrate FAA requirements compliance
2. Demonstrate to the witnesses that you have set up fail safe to cut the motor/engine
3. Measure the loudness of your plane at full throttle (club supplied sound meter)
4. Find out what a Chandelle is and describe it to the witnesses, then fly it
5. Find out what a procedure turn is and describe it to the witnesses, then fly it
6. Taxi two laps around pylons on the runway that are at least 100 feet apart
7. Tape or fix a ballon on the runway, taxi into it and break it with a prop or pin on the plane
8. Fly a horizontal Figure 8 (R/L 360 deg turn followed immediately by L/R 360 deg turn)
9. Fly 3 practice approaches to landing, fly the entire length of the runway without landing
10. Fly with 2 other airplanes in the sky for at least 2 minutes without a mid-air/crash
11. Fly at least one round in a Phantom Flyers glider contest (using any plane)
12. Fly 3 laps of a simulated pylon race – alone, untimed, define circuit with the witnesses, as high as you want, pylon cuts are not monitored or penalized
13. Complete 3 touch and goes (runway or grass) during one flight
14. Fly inverted for 2 minutes continuously
15. Fly the Avalanche maneuver (Inside loop with a snap roll at the top)
16. Do a minimum 3 turn upright spin
17. fly the AMA Sportsman pattern maneuver sequence (unscored just fly the maneuvers)
18. fly the AMA Intermediate pattern maneuver sequence (unscored just fly the maneuvers)
19. Fly a knife edge R to L (> 2 sec) with canopy toward the pilot's line, then fly it L to R
20. Simulate a dead stick landing, from above 200 feet, cut throttle and glide to landing

Decathlon of RC Events List (choose 10)

- Some of the events/tasks are self-explanatory. Some will require more detailed explanation. If you have any questions, don't hesitate to contact me at 636-219-2255 or president@phantomflyersrc.com
- If you need help finding witnesses, contact me. But don't be shy about asking anyone you see at the field.
- I plan to hold a Decathlon opening ceremony event at the flying field to kick-off the Decathlon - but mostly to answer questions and get people started.

Decathlon of RC Events List (choose 10)

1. **MANDATORY FOR ALL COMPETITORS:** FAA requirements compliance

Show the witnesses that per FAA rules, you have registered your “drone” and the registration number appears somewhere on the outside of the airplane and that you have completed the TRUST test.

Our club specific requirements for flying in controlled airspace include that every pilot must verify that the weather is sufficient to fly. The weather must be checked every time you go out to fly. The only acceptable weather source is the FAA issued METAR (Meteorological Aerodrome Report) for Lambert St Louis airport. The METAR is updated hourly. It only needs to be checked once a day. That can be before you leave your house. You do not have to check it again for the rest of the day. There are many sources for this report. Google or any internet search engine will find multiple sources. Easiest is to go to our club website (phantomflyersrc.com). On the left side on the home page is a white box with KSTL in the box. This automatically updates but you should verify it is current. Minutes since last update will be listed immediately below KSTL. Any less than 120 minutes ago is acceptable.

If you do not have convenient access to the internet, you can use ASOS (Automated Surface Observing System). ASOS is a phone number you call (314-890-4790) that has a looping prerecorded message. From this you need two pieces of information: visibility (given in statute miles must be 3 or greater to fly) and lowest cloud level. RC flying is restricted to maximum of 500 feet below the lowest cloud level or 2000 feet (Above Ground Level), whichever is less. As I write this the lowest cloud level reported is 2100 ft AGL. The current maximum altitude for RC flying is $2100 - 500 = 1600$ feet AGL. The ASOS phone number is posted on the inner side of a column of the pavilion at the field. You must demonstrate that you are capable of getting and using this information.

Decathlon of RC Events List (choose 10)

2. Demonstrate to the witnesses that you have set up fail safe to cut the motor/engine
Set the plane up ready to fly on the ground. You and/or helpers must restrain the airplane through out this demonstration. Start the engine or enable the electric motor. Advance the throttle to an idle level. With the engine idling and with out touching the throttle control, turn the transmitter off. The engine or motor should come to a complete stop. If it does not, you will need to look into how to set the fail safe for your radio.
3. Measure the loudness of your plane at full throttle (club supplied sound meter)
This will usually require at least 2 people. Enlist the help of one or both witnesses. With the airplane restrained from moving and pointed away from the pits and other people, run the throttle to full throttle. Hold the sound meter approximately 9 feet from the centerline of the airplane on one side of the airplane, but behind the arc of the propeller. Give the meter a few seconds to come to a stable reading and record the sound level using "A" weighting.
4. Find out what a Chandelle is and describe it to the witnesses, then fly it
5. Find out what a procedure turn is and describe it to the witnesses, then fly it
6. Taxi two laps around pylons on the runway that are at least 100 feet apart
7. Tape or fix a ballon on the runway, taxi into it and break it with a prop or pin on the plane
If you are flying an airplane without a propellor in the nose, tape or otherwise affix a pin pointing forward. Taxi the plane into the ballon so that the pin pops the balloon.

8. Fly a horizontal Figure 8 (R/L 360 deg turn followed immediately by L/R 360 deg turn)
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16. Do a minimum 3 turn upright spin
17. fly the AMA sportsman pattern maneuver sequence (unscored, just fly the maneuvers)
18. fly the AMA intermediate pattern maneuver sequence (unscored. just fly the maneuvers)
19. Fly a knife edge R to L (> 2 sec) with canopy toward the pilot's line, then fly it L to R
20. Simulate a dead stick landing, from above 200 feet, cut throttle and glide to landing