

SYFC ELECTRIC CL COMPETITION RULES 2019

1. CATEGORIES

- A. Junior: Year* 1 and 2 (One-up race) [Beginner]
- B. Senior: Year* 3, 4 and 5 (Two-up race) [Advanced]

*Year instead of Level has been indicated here to cater to students who join the CCA late. However, proof of their membership registration must be provided in order for them to be eligible to participate in the Junior Category.

2. RACING CIRCLE

- A. Consists of two concentric circles marked on the ground.
- B. Inner Circle: 3m radius (9.8ft). [Pilot's circle]
- C. Outer Circle: 9.2m radius (30ft). [Mechanic's Circle]

3. MODEL SPECIFICATIONS

- A. Line Length: 7.62m (25ft).
Measured from the axis of the control handle to the tip of the propeller spinner.
- B. Propulsion: Maximum 2200KV electric motor.
- C. Battery Power: 3 cell Lithium Polymer, maximum 11.1V / 1350mah
- D. ESC: (Electric Speed Controller) 20 - 40 amps
- E. Surface Area: (Minimum total projected) 5.5 cm²
- F. Total max weight: 400g
- G. Electronic Timer: Required
- H. Wheel(s): Optional
- I. Direction of Flight: Anti-clockwise

4. RULES

- A. Strictly no sharing of ECL models.
- B. No limit in the number of teams each school can send to compete.
- C. Each attempt entails a continuous flight of 50 laps or a maximum flight time of 4 minutes, whichever comes first. No pit-stop is required.
- D. Each team comprises of one pilot and one mechanic.
 - i. Team members are allowed to swap between being either pilot or mechanic.
 - ii. A participant can only be a member of one team.
 - iii. Should one member of the team be absent on the race day, a replacement member (not in any other team) may be filled-in.
- E. Participants in both categories will be given two attempts and judged according to their fastest timing.
- F. Pilots are to remain inside the Pilot's Circle to fly their respective model and complete the race.
- G. Mechanics are positioned outside the Racing Circle to prepare the model for launch at or after the signal is given by the Circuit Marshal.

- H. For safety reasons, mechanics will initially not be allowed to retrieve the model when it crashes due to technical fault or upon launching.
 - i. Retrieval will only be allowed when the Circuit Marshal gives the clearance.
 - ii. Once retrieved, mechanics will be allowed to restart the model at the position of the crash and outside of the Racing Circle.
- I. A time keeper and lap counter will be assigned to each team at the Racing Circle.
 - i. They will be stationed outside the Racing Circle, near the pitting area of the model that they are assigned to.
 - ii. They will be responsible for timekeeping and lap counting of the assigned team.
- J. The flying height must be no more than 5 metres.
- K. The race ends when 50 laps are completed and the respective timing recorded; or the number of laps completed at the end of the 4 minutes.
- L. Both the pilot and mechanic will be awarded the prize should their team be one of the winners.
- M. The best 5 timings from each school will be recorded for School Team Points.

5. WARNINGS AND DISQUALIFICATIONS (DQ)

- A. Warning – Pilot applies physical effort to increase the speed of his model during the official flight (whipping).
- B. Warning – For any other flagrant breach of the rules.
- C. Warning – High flying above 5m in height.
- D. DQ – Pilot not having the handle safety strap secured to the wrist while model is in flight.
- E. DQ – Mechanic not wearing a helmet or helmet not strapped.
- F. DQ – Pilot flying dangerously.
- G. DQ – Pilot steps outside the centre circle before the mechanic has taken hold of the landing model.
- H. DQ – Jettisoning occurs or if the model is not secured resulting in parts falling off during flight.
- I. DQ – Accumulating three warning during a race. Disqualification counts as one attempt.
- J. DQ – Arguing with or abusing official.

6. PROTESTS

Any member(s) of the teams competing in a race may submit a protest to the Contest Director based on the following guidelines:

- A. Protest must be directed to the contest director within half-an-hour from the termination of the race in which the protest is concerned about.
- B. The Contest Director shall decide on the outcome of the protest. The outcome will include dismissing the protest, granting attempt, calling for a re-fly of the race.
- C. Decision(s) made by Contest Director will be final.

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SYFC