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## 2. Aeromodelling

### ***Discipline 2.1: Radio Controlled Aerobatics***

#### **Event Description**

Aeromodelling is the simplest and most popular of all air sports. Most of us remember building paper aeroplanes and receiving presents of balsa-wood models propelled by rubber-bands! Well today, high-performance electronic modules and small piston engines or electric motors allow model airplanes and helicopters to fly astoundingly realistic aerobatic manoeuvres. Pilots, standing in front of spectators, have to use their remote-control units to produce harmonious sequences of aerobatic manoeuvres in time to self-selected or compulsory music. During this artistic event, judges evaluate the precision of flight, and the originality and harmony of the manoeuvres flown.

#### **Venue**

- *Location:* Main or Satellite venue
- *Air Space Requirements:* The competition flights take place in front of spectators, within an area on the ground about 500 meters wide by 250 meters deep. A maximum altitude of 200 to 300 meters is required.
- *Event Site:* Take-offs and landings require a flat, hard top or smooth grass surface of about 50 x 10 m, with obstacle-free take-off and approach paths, at a safety distance of some 50 m from spectators.
- *Timing:* At any time of the day. The event is flexible enough to allow a splitting of each round into 2 or 3 equal time windows. This enables organisers to fit this event into possible spare time between other events.

#### **Competitors**

- *Competitor type:* Individuals
- *Team Composition:* 1 pilot + 1 helper/coach during flights (this helper/coach is either another registered pilot or a person accompanying the pilot).
- *Number of entrants:* 10 pilots
- *Support personnel:* 7 (local staff for technical assistance; might be combined with other Aeromodelling events)
- *FAI – CIAM Referees :* 8 (might be combined with other Aeromodelling events)

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## Duration

- *Practice Days:* 1
- *Competition days:* 3 + 1 final round
- *Reserve Days:* 1 - 2
- *Time per round:* 1 ½ hour per round/40 minutes for final round.

## Technical Equipment specifically required for this event

- Radio frequency monitoring system (scanner)\*
- Ground marking (chalk/paint)\*
- Audio monitor (for pilots during flights to music)
- VHF transceiver for communication with control tower
- Scoring software (generally provided by a local club)\*

\* *This equipment may be shared with other Aeromodelling events.*

## Estimated Operational Budget (for 3 rounds + 1 final)

Max. USD 2'000.- for technical equipment listed above. At least half of the budget may be shared with other Aeromodelling events.

### Notes:

*This budget does not include the costs for venue, infrastructure, logistics, accommodation, volunteers and technical equipment required for conducting/presenting the events, or for interacting with the public (see section 'Technical Equipment').*