
1. Aerobatics

Discipline 1.1: Powered Aerobatics

Event Description

Aerobatic manoeuvres were first invented by early “military pilots” to escape from their enemies during the First World War. At the World Air Games 2009, the best aerobatic pilots in the world will be flying exciting “Unlimited Free” programmes, sometimes to music. This event will require pilots to demonstrate their ability to manoeuvre their high-performance aircraft at extreme physical limits and within a 1-km cube (the “box”) located just right in front of the public. Powered Aerobatics is a thrilling and highly dynamic event, and interaction with the public can be enhanced by using the latest in technology to show the ideal aerobatics manoeuvres on large screens.

Venue

- *Location:* Main venue
- *Air Space Requirements:* A box of 1 cubic km (with 0.5 km safety margins on top of the box and at all sides) above the main venue or in close proximity.
- *Event Site:* A runway below or in close vicinity of the aerobatic box for emergency landings. Spectators are located 200-500 meters from the box.
- *Timing:* Preferably between 11:00 and 18:00.

Competitors

- *Competitor type:* Individuals
- *Team Composition:* 1 pilot
- *Number of entrants:* 10 pilots
- *Support personnel:* 5 to 7 (local)
- *FAI – CIVA Referees:* 7 (Contest Director, 5 Judges, 1 Jury member)

Duration

- *Practice Days:* at least 1
- *Competition days:* min. 3+1 final round
- *Reserve Days:* 1-2
- *Time per round:* approx. 2 ½ hours

Technical Equipment specifically required for this event

- Min. 4 aerobatic aircraft (1 Sukhoi, 1 Extra 300, 1 Cap 232, 1 Edge 500)
- Radio transceiver system for each aircraft (flight control, transmission of music to pilots)
- Portable VHF radios for Jury President, Contest Director and Chief Judge.
- Scoring software (provided by CIVA)
- 5-7 plastic white stripes (2x9 m each) to mark a clear safety distance from spectators.
- Hangars for assembling aircraft, maintenance and parking.

Estimated Operational Budget (for 3 rounds + 1 final)

- Aircraft rental (4): USD 7'000.-
- Fuel: Approx. 1600 litres/USD 3'500.-
- Oil: Approx. 60 litres/USD 800.-
- Smoke (Paraffin & Oil / TBD): Approx. 1'000 litres/USD 3'000.-

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').