
Discipline 1.2: Glider Aerobatics

Event Description

Glider Aerobatics pilots, like their powered colleagues, have to demonstrate their ability to fly specific manoeuvres within a limited "box". As gliders are not engine-powered, pilots rely solely on the energy they derive from converting altitude into speed. Glider Aerobatic pilots are the actors in a three-dimensional ballet in the sky, where gliders soar through the air with the grace and elegance of a bird.

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) over the main venue or in close proximity.
- *Event Site:* A runway below or in close vicinity of the aerobatic box for gliders and tow aircraft. 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 :* 8 (local)
- *FAI – CIVA Referees:* 4 (1 Contest Director, 1 Jury member, 5 Judges, 3 of them being shared with "Powered Aerobatics").

Duration

- *Practice Days:* at least 1
- *Competition days:* min. 3+1 final round
- *Reserve Days:* 1-2
- *Time per round:* approx. 2 hours (2 rounds could be flown on the same day)

Technical Equipment specifically required for this event

- 4 aerobatic gliders (2 Swift/2 Fox)
- 3 tow planes (2 in operation, 1 spare). Tow planes and pilots may be combined with the Gliding event.
- Tow ropes (1 per tow plane+3-4 spare). This may be combined with the Gliding event.
- Gliders should be equipped with smoke system mountings and on-board video cameras.
- Radio transceiver system for each glider (flight control, transmission of music to pilots)
- Scoring software (provided by CIVA)
- 5-7 plastic white stripes (2x9 m each) to mark a clear safety distance from spectators.
- Parking facilities for gliders with tie-down (cables).

Estimated Operational Budget (for 3 rounds + 1 final)

- Tow planes, fuel and ropes: USD 2'000.-
- Rental of Gliders: USD 6'000.-
- Smoke cartridges: Approx. USD 4'000.-

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').