



Sport Class Air Racing Association

Formation Warm-up and PRTC/PRS Ground and Flight Training Syllabus

FWU Day 0 Arrival Day, Formation Warm Up Brief

Ground School

(Files to use: 02, and 03a or 03b as appropriate)

FWU Day 1 Formation Flights 1 and 2

Flight 1: 4-ship

Start Procedures

Taxi and Run-up Procedures

Interval Takeoff

Takeoff Rejoin

Route to working area

Fingertip Maneuvering

Cross-unders (Wingman and Element)

Echelon Turns

Pitchout and Rejoin Exercise

RTB

Overhead Break to Land

Flight 2: 4-ship

Start Procedures

Taxi and Run-up Procedures

Interval Takeoff

Takeoff Rejoin

Route to working area

Fingertip Maneuvering

Cross-unders (Wingman and Element)

Echelon Turns

Pitchout and Rejoin Exercise

* Extended Trail Maneuvering (added commensurate with student performance)

RTB

Overhead Break to Land



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FWU Day 2 Formation Flights 3-4 (optional 5)

Flight 3: 4-ship

Start Procedures

Taxi and Run-up Procedures

Interval Takeoff

Takeoff Rejoin

Route to working area

Fingertip Maneuvering

Cross-unders (Wingman and Element)

Echelon Turns

Pitchout and Rejoin Exercise

Extended Trail Maneuvering

Missing-Man Flyby Maneuver (as needed)

RTB

Overhead Break to Land

Flight 4 and 5: 4-ship

Start Procedures

Taxi and Run-up Procedures

Interval Takeoff

Takeoff Rejoin

Route to working area

Fingertip Maneuvering

Cross-unders (Wingman and Element)

Echelon Turns

Pitchout and Rejoin Exercise

Extended Trail Maneuvering

Missing-Man Flyby Maneuver (as needed)

- Line Abreast Exercise (added element to flights 4 and 5)

- Lost Sight/Breakout Exercise (added element to flights 4 and 5 as able)

RTB

Overhead Break to Land



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PRTC /PRS Day 1 SARC/RARA PRS Mass In-Brief: All Attendees
Reg Day Sport Class Ground School Part 1: Students and Non-current Racers
(Files to use: 04a, and 05a or 05b as appropriate)

Cert Fly Day – if included by SARC/RARA

On Course Practice: Certified Racers
Practice Flights will be constructed with racers present
Sport Class On-Course times divided between flights
Course entry will be Chute or Direct Entry, per Class Instructions and Lead Briefings



Sport Class Air Racing Association

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PRTC/PRS Day 2 PRTC/PRS Flight 1: 4-ship (with Instructors as required)

Fly Day 1

- Start Procedures
- Taxi and Run-up Procedures
- Interval Takeoff
- Takeoff Rejoin
- Echelon (Route) to working area
- Line Abreast Exercise
- Maneuver to Chute
- Demo Chute in Echelon
- Lead Guided Tour of Pylons
- On-Course practice
- Recovery in sequence

PRS Flight 2: 4-ship (with Instructors as required)

- Start Procedures
- Taxi and Run-up Procedures
- Interval Takeoff
- Takeoff Rejoin
- Echelon (Route) to working area
- Line Abreast Exercise (mock start)
- Maneuver to Chute
- Practice Chute Start in Line Abreast
- On-Course practice
- Recovery in sequence
- Instructor Demos as required



Sport Class Air Racing Association

Formation Warm-up and PRS Ground and Flight Training Syllabus

PRTC/PRS Day 3 PRTC/PRS Flight 3-4: 4-ship to 8-ship (with Instructors as required)

Fly Day 2

- Start Procedures
- Taxi and Run-up Procedures
- Interval Takeoff
- Takeoff Rejoin
- Echelon (Route) to working area
- Upset (Flip-Flop)
- Missing-Man Flyby Maneuver (as needed)
- Line Abreast Exercise (mock start)
- Lost Sight/Breakout exercise
- Maneuver to Chute
- Practice Chute Start in Line Abreast
- On-Course practice
- Simulated emergency
- Recovery on own
- Recommendation Rides and Check rides

Sport Class Ground School (Part 2 afternoon): PRTC/PRS Students & Non-Current Racers

(Files to use: 04b, and 05a or 05b as appropriate)

Air Race Demonstration Oral Evaluation for selected pilots. Class Officers and the Pilot Standards Committee will select specified pilots to be the designated Sport Class Air Racing Air Race Demonstration Pilots. These pilot must meet the qualifications outlined in the Class Rules for this designation, and must pass an oral evaluation on the topics outlined in the Class Rules.



Sport Class Air Racing Association

Formation Warm-up and PRTC/PRS Ground and Flight Training Syllabus

PRTC/PRS Day 4 PRS Flight 5-6: 4-ship to 8-ship (with Instructors as required)

Fly Day 3 Start Procedures
Taxi and Run-up Procedures
Interval Takeoff
Takeoff Rejoin
Echelon (Route) to working area
Upset (Flip-Flop)
Missing-Man Flyby Maneuver (as needed)
Line Abreast Exercise (mock start)
Lost Sight/Breakout exercise
Maneuver to Chute
Practice Chute Start in Line Abreast
On-Course practice
Simulate emergency
Recovery on own
Recommendation Rides and Check rides

Timing period for all Rookie racers and Certified racers with new/modified aircraft, if schedule and racer requirements needed/allow

Notes: 1. Once all pilots have completed all Race Pilot certification requirements and passed a check ride, at Lead's discretion, a direct entry on-course or an abbreviated chute may be utilized for normal pylon course entry.

2. Saturday afternoon training flights are optional for those who have passed a check ride and/or met all Race Pilot certification requirements.