



Sport Class Air Racing Association

Formation Warm-up and PRS Ground and Flight Training Syllabus

Lead Day 1 Lead Ground School Review and Formation Flights 1 and 2

Ground School Review

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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Lead 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



Sport Class Air Racing Association

Formation Warm-up and PRS Ground and Flight Training Syllabus

FWU Day 1 Formation Ground School and Formation Flights 1 and 2

Ground School

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)
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RTB
Overhead Break to Land



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PRS Day 1 RARA PRS Mass In-Brief (morning): All PRS Attendees

Reg Day Sport Class Ground School (Part 1 afternoon): PRS Students

Cert Fly Day – if included by RARA

On Course Practice (pm): Certified Racers

Practice Flights will be constructed with racers present

Sport Class On-Course times divided between flights

Course entry will be around Peavine or Direct Entry, per Class Instructions and Lead Briefings



Sport Class Air Racing Association

Formation Warm-up and PRS Ground and Flight Training Syllabus

PRS Day 2 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 around Peavine
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 around Peavine
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

PRS Day 3 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) and Hi-G Turn Exercise
Missing-Man Flyby Maneuver (as needed)
Line Abreast Exercise (mock start)
Lost Sight/Breakout exercise
Maneuver around Peavine
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): PRS Students

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 PRS Ground and Flight Training Syllabus

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) and Hi-G Turn Exercise
Missing-Man Flyby Maneuver (as needed)
Line Abreast Exercise (mock start)
Lost Sight/Breakout exercise
Maneuver around Peavine
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 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.