

Eagle Sport Aviation Club

Wingman Syllabus

Ground Session 1:

Name: _____

The student should have previously been issued a training manual/syllabus in the requisite formation groundschool, and studied the material in preparation for this ground session.

Formation Groundschool completion date: ____/____/____

Task: Student must demonstrate knowledge of:	Satisfactory Completion
Pre-flight briefings	
The responsibilities of the flight leader	
The responsibilities of the wingman	
Visual Signals	
Radio Procedures	
Relative positioning	
Stack height, nose-tail, and wingtip clearance	
Formation takeoffs (modified 4 second)	
Join-ups (3)	
Formation types:	
Basic 2-Ship	
Basic 4-ship (fingertip right and left)	
Diamond	
Echelon	
Crossover and duck-under	
Formation turns (relative position)	
Echelon turns (stack)	
Lost wingman procedures	
Arrival and break procedures	
Landing Procedures	
Emergency procedures (aborts, HEFOE and lost coms)	

Instructor Name: _____

Date completed: _____

Instructor Signature: _____

Flight Time: _____

Wingman Training Syllabus (cont'd)

Flight Lesson #2

Name: _____

This lesson will be a flight-of-two dual instructional flight composed of two J3 Cubs.

Task: Instructor will demonstrate and the student will perform the following tasks with instructor assistance:	Satisfactory Completion
Pre-flight briefings	
Visual Signals and Radio Procedures	
Modified formation takeoff (4s)	
Join-ups in a level turn	
Relative positioning and straight and level station keeping	
Crossover	
Lead Change	
Formation turns (relative position)	
Arrival and break procedures	
Landing Procedures	
Emergency procedures (aborts, HEFOE and lost coms)	

Instructor Name: _____

Date completed: _____

Instructor Signature: _____

Flight Time: _____

Debriefing Notes:

Wingman Training Syllabus (cont'd)

Flight Lesson #3

Name: _____

This lesson will be a flight-of-two dual instructional flight composed of two J3 Cubs.

Task: The student will perform the following tasks with minimal instructor assistance:	Satisfactory Completion
Pre-flight briefings	
Visual Signals and Radio Procedures	
Modified formation takeoff (4s)	
Join-ups in a level turn and from below	
Relative positioning and straight and level station keeping	
Crossover	
Lead Change	
Formation turns (relative position)	
Arrival and break procedures	
Landing Procedures	
Emergency procedures (aborts, HEFOE and lost coms)	

Instructor Name: _____ Date completed: _____

Instructor Signature: _____ Flight Time: _____

Debriefing Notes:

Wingman Training Syllabus (cont'd)

Flight #6

Name: _____

This lesson will be a flight-of-two or more aircraft as part of the Gaggle flight under the supervision of a designated instructor or Gaggle flight leader.

Task: The student will perform the following tasks with minimal instructor assistance:	Satisfactory Completion
Pre-flight briefings	
Visual Signals and Radio Procedures	
Modified formation takeoff (4s)	
Join-up	
Relative positioning and straight and level station keeping	
Crossover	
Echelon and Fingertip formations	
Formation turns (relative position)	
Arrival and break procedures	
Landing Procedures	
Emergency procedures (aborts, HEFOE and lost coms)	
Not scaring anyone else	

Instructor Name: _____ Date completed: _____

Instructor Signature: _____ Flight Time: _____

After a successful completion of this flight, the IP must provide an endorsement in the student's logbook and add the student to the approved formation flying section of the club's Current Pilot List before the student is permitted to fly unsupervised formation flights

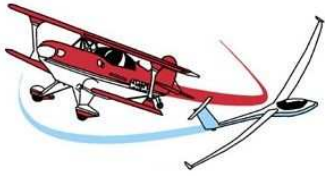
ESA Formation Syllabus Overview:

Estimated: 3 hours ground training (including groundschool)
4 training flights (5 hours total)
1 Gaggle flight (solo – 2 hours)
1 evaluation flight (1.2 hours)

1. Complete the formation groundschool
2. Instructor one-on-one ground lesson with student
3. Dual formation introduction flight (flight of two cubs)
4. Dual formation flight (flight of two cubs)
5. Dual formation flight (flight of two cubs)
6. Dual formation flight (flight of two cubs)
7. Dual formation evaluation flight (flight of two cubs)
8. Gaggle formation flight (required)
9. Complete the formation checkout paperwork and provide logbook endorsement

The club is not a flight school. We do not expect everyone who attempts formation flying to successfully complete this training syllabus.

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Eagle Sport Aviation Club

Wingman Formation Check Out Form

Name: _____ Pilot number: _____

Medical Class: _____ Expiration: _____

Emergency Contact name: _____ Number: _____

Knowledge:

Task	CK Pilot Initials
Briefing	
Responsibilities of Lead	
Knowledge of formation takeoff (inc. modified)	
Knowledge of formation landings (not allowed)	
Formation types, turns, and crossovers, duckunders	
Visual Signals and Radio Procedures	
Aerodynamic principles of formation flying: Climbs, descents, turns,	
Club formation rules	

Written Test Score _____ Graded by: _____

Airmanship:

Task	CK Pilot Initials
Read hand signals in flight	
Modified formation takeoff (4s delay)	
Straight and level station keeping	
Echelon and Fingertip	
Quick rejoins	
Crossovers	
Turns (inside and outside)	
Level Rejoins	
Turning Rejoin from below (must cutoff from below w/ lead above in a 45° bank perch)	
Types of Breaks	
Landing Spacing	
Club operating rules	

This pilot has performed all tasks satisfactory and is approved for Club formation operations as wingman.

Club Check Pilot

Date

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