



FLIGHT TRAINING PROGRAM
 Developed by Eric Helms and Pongo AIR

Lesson No.	Flight No.	Activities to be covered	Comments/notes
1	1	Flying site rules Transmitter impound area Badges, ID and the AMA Out of bound areas Restricted areas for engine operation Radio handling and controls Preflight checks – aircraft and radio Aileron – used to control _____ Bank of aircraft (aileron) (S) Level flight (aileron) (S) Up wind, crosswind and down wind (aileron) (S) Effect of power (aileron and throttle) (S)	
1	2	Fueling the aircraft Preflight Race track flight pattern (aileron) (S) Circles left and right (aileron, throttle) (S) Level flight (aileron, throttle) (S)	
1	3	Elevator – used to control _____ Pitch of aircraft Fueling the aircraft Preflight (S) Elevator drills (steps) (S) Race track flight pattern (aileron, elevator) (S) Circles left and right (aileron, elevator) (S) Level flight (aileron, throttle) (S)	
1	4	Review Post lesson brief	
2	1	Radio range check – with and without engine running Preflight (S) Race track flight pattern (aileron, elevator) (S) Circles left and right (aileron, elevator, throttle) (S) Level flight (aileron, elevator, throttle) (S)	



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Lesson No.	Flight No.	Activities to be covered	Comments/notes
		Climb and decent using throttle (S)	
2	2	Battery checks Review of angle of attach and impact on stall Fueling (S) Preflight (S) Elevator to control angle of attach Stalls – power off Stalls – power on Stall recovery	
2	3	Battery checks Review of angle of attach and impact on stall Fueling (S) Preflight (S) Elevator to control angle of attack Circles – climbing and descending w/power settings (S) Figure 8's (S) Basic loops w/power settings	
2	4	Review Post lesson brief	
3	1	Rudder – use to control _____ Coordinated turns Throttle creep Review of angle of attack and impact on stall (S) Fueling (S) Preflight (S) Turns and circles (rudder and elevator only) (S) Turns and circles (aileron and elevator only) (S) Turns and circles (aileron, rudder and elevator) (S) Race track (aileron, rudder and elevator) (S) Stalls and stall recovery (aileron, rudder and elevator) (S)	
3	2	Battery checks (S) Fueling (S)	

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Lesson No.	Flight No.	Activities to be covered	Comments/notes
		Preflight (S) Procedure turns (S) Procedure turn (aileron, rudder and elevator) (S) Figure 8's (aileron, rudder and elevator) (S) Loop and impact of rudder during loop (aileron, rudder and elevator) (S) Hammer head (aileron, rudder and elevator) (S)	
3	3	Battery checks (S) Fueling (S) Preflight (S) Procedure turn (aileron, rudder and elevator) (S) Figure 8's (aileron, rudder and elevator) (S) Flat turns (aileron, rudder and elevator) (S) Hammer head (aileron, rudder and elevator) (S)	
3	4	Battery checks (S) Fueling (S) Preflight (S) Take off procedure Flight line calls (what to say) Wind direction Ground handling and taxi drills (S)	
3	5	Review Post lesson brief	
4	1	Review: Flight pattern Take off procedure Angle of attack and stalls (relationship) Climb out Stalls and stall recovery Initial turn after take off Battery check (S) Radio range check (S)	

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		Fueling (S) Preflight (S) Wind direction Ground handling and taxi drills (S) Procedure turns(S)	
4	2	Battery check (S) Fueling (S) Preflight (S) Wind direction Ground handling and taxi drills (S) Take off from behind airplane (student 3-5 times) Procedure turns (all controls) (S) Figure 8's (all controls) (S) Stalls and stall recovery (all controls) (S)	
4	3	Battery check (S) Fueling (S) Preflight (S) Wind direction (S) Ground handling and taxi drills (S) Take off from flight station (student 5-7 times) (S) Procedure turns (all controls) (S) Figure 8's (all controls) (S) Stalls and stall recovery (all controls)	
4	4	Review Post lesson brief	
5	1	Slow flight Power and elevator relationship (performance = pitch and power) Elevator use to establish landing flair Battery check (S) Fueling (S) Preflight (S) Wind direction (S)	

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Lesson No.	Flight No.	Activities to be covered	Comments/notes
		Ground handling and taxi drills (S) Procedure turns (all controls) (S) Race track (all controls) (S) Glide (all controls) (S) Approach (all controls) (S)	
5	2	Battery check (S) Fueling (S) Preflight (S) Take off (S) Climbing turns and circles (S) Procedure turns (all controls) (S) Figure 8's (all controls) (S) Approach (all controls) (S) Go around procedure (all controls)	
5	3	Battery check (S) Fueling (S) Preflight (S) Take off (S) Procedure turns (all controls) (S) Slow and low fly by (all controls) (S) Approach (all controls) (S) Go around procedure (all controls) (S) Landing (student?)	
5	4	Review Post lesson brief	
6	1	Aircraft trim settings (handout) Rolls barrel and axial Battery check (S) Fueling (S) Preflight (S) Take off (S)	

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Lesson No.	Flight No.	Activities to be covered	Comments/notes
		Barrel roll (S) Aileron trim (S) Approach (all controls) (S) Go around procedure (all controls) (S) Landing (student?)	
6	2	Battery check (S) Fueling (S) Preflight (S) Take off (S) Procedure turns (all controls) (S) Slow and low fly by (all controls) Elevator and rudder trim (S) Approach (all controls) (S) Rolls and loops (S) Landing (student?)	
6	3	Battery check (S) Fueling (S) Preflight (S) Take off (S) Slow and low fly by (all controls) (S) Elevator and rudder trim Approach (all controls) (S) Rolls and loops (S) Landing (S)	
6	4	Review Post lesson brief	
7-8	1-3	Battery check (S) Radio range check (S) Fueling (S) Preflight (S) Take off (S)	

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Lesson No.	Flight No.	Activities to be covered	Comments/notes
		Loops, rolls, hammerhead Introduce Cuban 8's Maximize flight time Focus on: Controlling the aircraft during all phases of flight. Additional work on basic aerobatics and sow flight	
7-8	4	Review Post lesson brief	
9-10	1-3	Battery check (S) Fueling (S) Preflight (S) Maximize flight time during windy conditions Focus on: Controlling the aircraft during all phases of flight. Insert aircraft trim related problems Additional work on basic aerobatics and sow flight	
9-10	4	Review Post lesson brief	
11-13	1-3	Emergency procedures: Engine out/simulated dead stick landings Touch and go Battery check (S) Radio range check (S) Fueling (S) Preflight (S) Maximize flight time Focus on:	

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Lesson No.	Flight No.	Activities to be covered	Comments/notes
		Controlling the aircraft during all phases of flight. Insert unusual attitude related problems Additional work on basic aerobatics and sow flight	
1-13	4	Review Post lesson brief	
14-?	1-3	Fly with a purpose Engine out/simulated dead stick landings Touch and go Battery check (S) Radio range check (S) Fueling (S) Preflight (S) Maximize flight time Focus on problem areas Build skills with goal of Solo flight	

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14-?	4	Review	
		Solo Flight To be demonstrated by the student without any interaction from the student: Airframe safety inspection Battery check Knowledge of club rules and flight line procedures Preflight Taxi Take off, climb and initial turn Left or right flight pattern Approach Landing Taxi Shutdown	

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