BCFT Outline for New Pilots 11/01/2025 ver. 1.4

Overview for the Person who wants to fly RC airplanes:

The process of introducing the hobby of RC Airplanes is to give information and flight instruction to the Student Pilot. This information is multi faceted and can be over whelming without help and direction. The Student pilot will need specific instructions on the type of plane, radio, batteries, and supplies they will need to start the process of training. The Student Pilot will need to know the rules and regulations of the AMA (Academy of Model Aeronautics), The FAA (Federal Aviation Admin), and the club rules for the BCFT (Benton County Flying Tigers). The Student Pilot will be assigned to a Flight Instructor. The Flight Instructor will guide them through all of these processes. Learning to fly a RC Airplane is a very rewarding and lifelong hobby. Youth to Seniors, with the right direction can fully master the basics and endeavor to branch into any class of airplane they want to. War birds to General Aviation. Props to Jets. Let your Flight Instructor teach you the hobby in a rewarding and fun way to fly RC Aircraft.

The Student will supply their own equipment for training. The Clubs trainer equipment is designated for Discovery Flights, Club events, or extenuating circumstances while a Student Pilot's plane is being repaired. The airplane options below are the recommended trainers and have been proven to be successful trainers. The Student can chose any high wing trainer type model of their choice, preferably with a Spektrum radio with the feature of a wireless trainer link between the Instructor and Student radios. *** Flight Simulators can enhance the training curve but not necessary.

Flight Training Equipment Estimates:

Required Equipment (AeroScout 2.1 meters)	**BNF (Bind and Fly)***	**RTF (Ready to Fly)****
Trainer High wing Airplane	*$199.99*	$249.99 ***DXS Tx
Radio Tx (pilot control box)	$299.99 ***DX6e Tx	Included with Trainer
Battery(s) Lipo (Connector same as airplane)	$90.00 (3 batteries 2200mah)	$90.00 (3 batteries 2200mah)
Charger Lipo with balance charging	$89.99	$89.99
Battery Storage box (ammo can)	$20.00	$20.00
Total	**$699.97 ******	**$449.98 ******

Required Equipment (Apprentice 1.1 meter)	**BNF (Bind and Fly)***	**RTF (Ready to Fly)****
Trainer High wing Airplane	*$329.99*	$369.99 ***DXS Tx
Radio Tx (pilot control box)	$299.99 ***DX6e Tx	Included with Trainer
Battery(s) Lipo (Connector same as airplane)	$90.00 (3 batteries 2200mah)	$90.00 (3 batteries 2200mah)
Charger Lipo with balance charging	$89.99	$89.99
Battery Storage box (ammo can)	$20.00	$20.00
Total	$829.97 ****	$569.98 ****

**BNF: The airplane package is minus the radio. Bind the radio purchased separately to the airplane and complete the setup*
***RTF: The airplane comes complete with the airplane and radio are already bound to each other.*

*** The DX6e is capable of flying multiple planes with 250 model memory. The DXS is one plane specific.

**** The BNF configuration is about $250 higher than the RTF configuration. The Dx6e Tx will store 250 models where as the DXS is a one plane Tx. When you do the math the better option is to by the BNF configuration as it will save you from buying an additional radio after training is completed. To get into the hobby perhaps the RTF configuration meets your needs. Any DX, NX, or IX Radio will work regardless of the channels per the radio. ie. DX8 or NX6, or IX8.

Proven Trainer Airplanes: (a trainer is a high wing stabilized aircraft) ****Note RTF and BNF models are shown.

HobbyZone RC Airplane AeroScout S 2 1.1m RTF Basic (Battery and Charger Not Included) with Safe Technology, HBZ380001, Airplanes (RTF), Trainers $227.00 prices vary

What's in the box

- (1) Spektrum™ Avian™ 30A Brushless Smart Lite ESC (installed)
- (1) Brushless Outrunner Motor (installed)
- (4) Sub-Micro Servos (installed)
- (1) Spektrum™ AR631 Receiver (installed)
- (1) Spektrum DXS 2.4GHz DSMX® Transmitter

Needed to Complete

- (3) 3S 11.1V 2200mAh LiPo battery with EC3 or IC3 connector*
- (1) Compatible LiPo Charger*

Apprentice S 2 1.2m RTF Basic (Battery and Charger Not Included) with Safe, HBZ310001, White $259 prices vary

What's in the box

- (1) Apprentice S 2 1.2m RTF Basic with SAFE
- (1) Brushless Outrunner Motor (installed)
- (1) 30A Brushless Telemetry-Capable ESC (installed)
- (4) Sub-Micro Servos (installed)
- (1) Spektrum™ AR631 Receiver (installed)
- (1) Spektrum DXS 2.4GHz DSMX® Transmitter
- Product Manual

Needed to Complete

- (3) 3S 11.1V 1300–2200mAh LiPo battery with EC3 or IC3 connector
- (1) Compatible LiPo charger

Slow Ultra Stick 1.2m models (EFL0350) BNF $179.00 prices vary

What's in the box

- (1) E-flite® Slow Ultra Stick 1.2m
- (3) Spektrum™ A345 Digital Servos (installed)
- (1) Spektrum Brushless Outrunner Motor (installed)
- (1) Spektrum Avian™ 30A Smart Lite Brushless ESC (installed)
- (1) Spektrum AR630 6-Channel Receiver with AS3X and SAFE Select (installed)
- Product Manual

Needed to Complete

- (1) Full-range 4+ Channel Spektrum DSMX/DSM2 Compatible Transmitter
- (3) 2S 7.4V or 3S 11.1V 1300–2200mAh LiPo with IC3 or EC3 Connector
- (1) Compatible LiPo Charger

Inspired by classic slow flyer "Stick" models with modern-day technologies, features, and performance for "mild to wild" capabilities

Uniquely capable and versatile so it can be flown in more places and smaller spaces from yards to parks and beyond

Based on modern Ultra Stick designs and inspired by classic "Stick" models of the past, the Slow Ultra Stick 1.2m offers unique "mild to wild" performance and capabilities – from slow flying to aggressive aerobatics in yards, at parks and beyond!

HobbyZone RC Airplane Carbon Cub S 2 1.3m RTF Basic (Battery and Charger Not Included),

HBZ320001 $329_____ prices vary

What's in the box

- (1) HobbyZone Carbon Cub S 2 1.3m
- (1) Brushless Outrunner Motor (installed)
- (1) 30A Brushless Telemetry-Capable ESC (installed)
- (4) Sub-Micro Servos (installed)
- (1) Spektrum™ 3230A Flight Controller (installed)
- (1) Spektrum 4650C Serial Receiver (installed)
- (1) Spektrum DXS 2.4GHz DSMX® Transmitter

- Product Manual

Needed to Complete

- (3) 3S 11.1V 2200mAh LiPo battery with EC3 or IC3 connector*
- (1) Compatible LiPo Charger*

Hobby Shops to purchase from:

Hobby Zone, AMain Hobbies, Horizon Hobby, Tower Hobby, Amazon, and there are others.

If you have questions please discuss them with your instructor before you buy. They can help or find help.

The BCFT annual Club dues: (View and signup via BCFT.net web site)

Club dues annually for adults 16 years of age or older 94.00

Club dues annually for minors under 16. 12.00 (Always accompanied by an adult)

The annual dues cover the mowing expenses, field maintenance, facility improvements, and supplies.

Joining in October the paid dues will continue to pay for the next year. No prorated dues.

The AMA annual insurance fees: (paid to the Academy of Model Aeronautics)

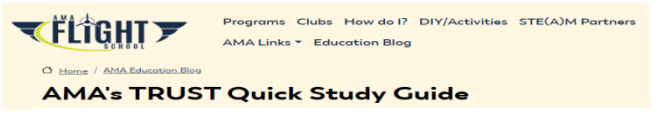
The annual dues for adults 85.00

The annual dues for youth under 16 15.00 (under the age 19)

AMA dues can be waived for 90 days under the AMA agreement. Paper work pending approval from the AMA.

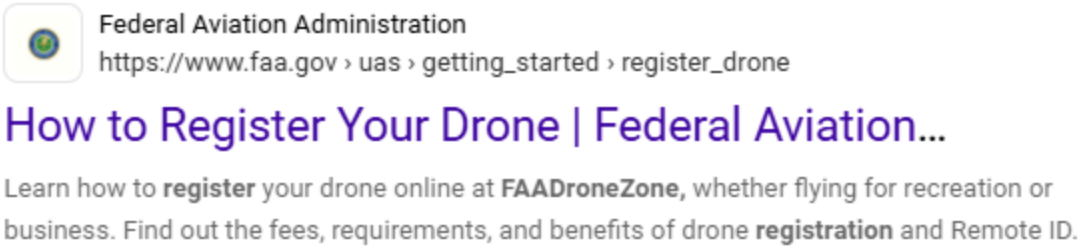
The FAA requirements:

Take the "Trust" educational video and test to receive a certificate number and card. (no charge)



This study guide and test can be found on the AMA web site. Or, the FAA.gov web site.

Apply for the FAA model identification number required to be on each airplane. ($5.00 filing fee total)



More up front consistent flying lessons will result in progressing from student to solo pilot quicker. Best results are scheduling once or twice weekly with your instructor.

Check List of training **Student Pilot: _____**

	Task:	Date:	Comments and Initials of FS (Flight Instructor)
	Club Membership Dues		
	AMA Paid Insurance		#
	Trust Program Registration		#
	FAA Model ID Number		#
	AMA Club Safety Rules Reviewed and Hard copy given to Student		
	Club Safety Rules Reviewed and Hard copy given to Student		
	Lipo Battery Safety: Suggested Information for safety		
!!	10 RC Lipo Battery Mistakes YouTube AMain Hobbies		
!!	How to keep Lipo Batteries from burning your house down. YouTube Joshua Bardwell (22 min.)		
!!	Lipo Batteries - Understanding the Basics YouTube RC		

Flight Training: (Demonstrate the maneuver to the Student, then let them fly the maneuver.)

		Completed	Comments and Initials of FS (Flight Instructor)
	Pre Flight Check and regular inspections explained		
	Weather and Wind (when is it advisable to fly rc)		
	Discuss Aerodynamics. lift,drag,stalls,controls		
	Straight and Level Flight using oval flight pattern (3 mistakes high)		
	Flying the center of runway (left hand oval pattern)		
	Lowering altitudes using throttle control flying oval pattern		
	Take off		
	Landing		
	Flight Recovery from a Stall		
	Figure 8		
	Loop		
	Roll		
	Flight Recovery from a unusual flight orientation		
	Dead Stick Landings		
	Final Lesson is to observe Student as PIC (Pilot In Command) start to finish		

Instructor Sign Off that training is satisfactory and completed:

_____ ____/____/____

Student Sign Off that the training was adequate and I can carry out the safety guidelines and Flight control of my aircraft:

_____ ____/____/____

Academy of Model Aeronautics
National Model Aircraft Safety Code

Effective January 1, 2018

A model aircraft is a non-human-carrying device capable of sustained flight within visual line of sight of the pilot or spotter(s). It may not exceed limitations of this code and is intended exclusively for sport, recreation, education and/or competition. All model flights must be conducted in accordance with this safety code and related AMA guidelines, any additional rules specific to the flying site, as well as all applicable laws and regulations.

As an AMA member I agree:

- I will not fly a model aircraft in a careless or reckless manner.
- I will not interfere with and will yield the right of way to all human-carrying aircraft using AMA's See and Avoid Guidance and a spotter when appropriate.
- I will not operate any model aircraft while I am under the influence of alcohol or any drug that could adversely affect my ability to safely control the model.
- I will avoid flying directly over unprotected people, moving vehicles, and occupied structures.
- I will fly Free Flight (FF) and Control Line (CL) models in compliance with AMA's safety programming.
- I will maintain visual contact of an RC model aircraft without enhancement other than corrective lenses prescribed to me. When using an advanced flight system, such as an autopilot, or flying First-Person View (FPV), I will comply with AMA's Advanced Flight System programming.
- I will only fly models weighing more than 55 pounds, including fuel, if certified through AMA's Large Model Airplane Program.
- I will only fly a turbine-powered model aircraft in compliance with AMA's Gas Turbine Program.
- I will not fly a powered model outdoors closer than 25 feet to any individual, except for myself or my helper(s) located at the flightline, unless I am taking off and landing, or as otherwise provided in AMA's Competition Regulation.
- I will use an established safety line to separate all model aircraft operations from spectators and bystanders.

For a complete copy of AMA's Safety Handbook please visit:
modelaircraft.org/files/100.pdf

SAFETY

Benton County Flying Tigers prioritizes safety in all aspects of our operations. We place significant emphasis on thorough pre-flight checkouts and exercise meticulous care in handling modern high-energy Lithium-Polymer batteries as well as model aviation fuel. Our commitment is to ensure a secure and enjoyable environment for all participants.

BCFT – Benton County Flying Tigers Model Airplane Club Field Safety Rules — 2025

In addition to these Safety and Operating Rules, all club members/pilots shall abide by the current AMA rules and guidelines

1. All pilots MUST be a current member in good standing of the Academy of Model Aeronautics (AMA) and have in their possession a currently valid AMA card or a receipt for payment of membership dues issued by the AMA. Minor Members will fly with their parent present only.

2. First Aid Kit and Emergency numbers are located in the First Aid lock box. The combination is the same as the entry gate combination. See the Safety Officer if you have any questions.

3. ALL PILOTS USING 72 MHz RADIOS MUST seek out and coordinate with any other 72MHz flyer the use of shared channels. The responsibility is totally on the 72MHz pilots.

4. Full-scale aircraft always have the right-of-way over models, and it is our responsibility to “See and Avoid” all full-scale aircraft. Therefore, ALL PILOTS MUST WATCH FOR FULL-SCALE TRAFFIC AT ALL TIMES! Keep blue sky between you and the full-scale airplane at all times.

5. All model aircraft will be pointed toward the runways and away from any spectator area during engine start or run-up.

6. There will be a maximum of four (4) aircraft flying at any one time, except under certain PREARRANGED group launches, such as “foam constructed combat”. During events a spotter is recommended. During normal flying it is strongly recommended to use a spotter

7. Under no circumstances shall a model aircraft be flown over other pilots, the Pit Area, Spectator Area, Vehicle Parking Area, the roads adjacent to the entrance, nor flown in a reckless manner that could be dangerous to people or property.

8. Except for special events, all aircraft performing “Hovering and other 3D type maneuvers” are restricted to the CENTER OF THE ACTIVE runway OR confined to an area at least fifty (50) feet BEYOND THE ACTIVE runway. Helicopters may fly in the normal traffic pattern over the main runway when not hovering or flying “3D” type maneuvers.

9. With the exception of taxiing directly to the runway after engine start, NO aircraft will be taxied, hovered, landed or launched in or from the Pit Area! Aircraft may be hand-launched from the pilot area immediately adjacent to a runway. Immediately after landing and clearing the runway, the pilot will stop the aircraft engine and push, pull or carry his aircraft back into the Pit Area. Pilots are NOT ALLOWED to taxi their aircraft into the pit area following a flight!

10. The Active Runway is Off Limits to everyone except when aircraft retrieval on or beyond the runway is necessary. Any person retrieving an aircraft or placing an aircraft for takeoff must first ensure that all pilots who are currently flying an aircraft know that they are going onto the runway! This may be accomplished by shouting: “ON THE RUNWAY!” and wait for the active pilots to acknowledge before walking onto a runway. Make the retrieval as quickly as possible and when you are clear of the runway shout, “CLEAR!”

11. Nonclub members, spectators, and children are not allowed into the Pit Area or Pilot Flying area unless supervised by a BCFT member or an Instructor/Pilot.” ALL club members are responsible for ensuring the Pit and Flight area restriction is observed.

12. A “Student Pilot” shall NOT be allowed to fly an aircraft unattended at BCFT Field until he/she has demonstrated flight proficiency and knowledge of these Rules to a club instructor

13. Engines cannot be run without any type of header, muffler, or pipe.

14. No drinking of alcoholic beverages at any time during or after flying. Drugs are not allowed. You will lose your membership over this action.

15. Pets are allowed in the pit area or pilot area during regular nonevent flying. ALL pets MUST remain on a leash or in a confined area at all times during Fun Flys.

NOTE: Failure to comply with these rules may result in revocation of membership after review of the incident by the Safety Officer reported to the Board of Directors.