



MARC
MODEL AIRCRAFT AND REMOTE CONTROL FLIGHT ACADEMY
CIVIL AIR PATROL
UNITED STATES AIR FORCE AUXILIARY
March ARB, CA



28 November 2015

MEMORANDUM TO MARC R/C FLIGHT ACADEMY PARTICIPANTS

FROM: Activity Director

SUBJECT: MARC RC FLIGHT ACADEMY SYLLABUS

Purpose:

The primary purpose of this program is to acquaint participating CAP cadets with the processes of assembling a Remote Control (RC) model aircraft and learn how to fly it according to Academy of Model Aeronautics (AMA) safety rules. This will be accomplished with a qualified AMA RC pilot as an instructor. The goal is for the cadet to fly solo on his/her own RC airplane, and move onto more advanced maneuvers. At the completion of the week-long academy the cadet will be able to explain the process from beginning to end of assembling a RTF RC airplane will have flown at least six hours under supervision and have soloed.

A secondary Purpose is to build several "profile" electric RC airplanes. These will be built over several evenings and flown at a group picnic event on August 8th. An additional goal is to teach the cadets how to fix an RC airplane after it has crashed. For the past two years we have had a very good record in not crashing planes, but it does happen. Cadets will return home and fly RC planes. We want to show them the basics of fixing them after they hit a tree or building!

Process:

To accomplish this objective the participants will experience some classroom training assembling their own RC aircraft model, checked that all systems are functioning per the aircraft manufacturers specifications, Mr. Clair Murray our Chief Flight Instructor will be on site to assist in cadets learning how to "do it right". This monitored training will allow the cadet to assist in the assembling other aircraft when they return home or in their CAP units. In essence they will become the RC experts when they return to their units.

To achieve the secondary purpose and goals, cadets will take foam board sheets and cut the necessary parts, create airfoils and a fuselage. Rudders and ailerons will be cut and hinged to accept hardware, radios and electric motors. Cadets will learn to use the proper tools, safety processes and related materials to assemble and fly a home made RC airplane. . Cadets will determine CG and balance the aircraft for proper flight.

Safety:

Safety is a foremost concern due to the nature of this program. Therefore, participants and staff will receive multiple safety briefings throughout the week; at least two from the AMA pilots and more from our CAP activity safety officer. In addition, cadets will be drilled on weather, fire safety and evacuation procedures.

All construction activities will be monitored for safety, and safety briefings will be done prior to using X-acto or hobby knives to cut foam boards or balsa wood. This will be identified in the ORM and briefed daily.

Training Schedule:

The training schedule is renewed annually in cooperation with the Academy of Model Aeronautics and local AMA flying club officials.

Measurement:

During and at the end of the activity cadet participants will be asked to review and explain various aspects of their RC airplane, battery and radio within a group discussion environment, and will be asked to identify areas that most interested them, and why. Each participant will receive certification of completion for this academy and a CAPF2a that enables their home unit to present the NCSA ribbon to them.

The MARC R/C Flight Academy Staff and I look forward to meeting you. The program is very well designed and will be enjoyable, educational and fun

Congratulations again on being selected for this outstanding NCSA!

In the Spirit of CAP and Flight,

Randy



Randall Carlson, LtCol, USAF (Ret), CAP

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