

2019 AVIATION MERIT BADGE CLINIC

Registration Deadline: **4-27-2019**Limit: **40**Next time offered: **May 2020****DATE:**

Wednesday May 1st, from 6:00 PM to 8:30 PM

Wednesday May 8th, from 6:00 PM to 8:30 PM

Wednesday May 15th, from 6:00 PM to 8:30 PM – Date may change due to weather

LOCATION:

Wausau Downtown Airport, Lakeview Drive, Wausau

IMPORTANT:Scouts **MUST** attend all three session for the **ENTIRE** scheduled time. Every Scout is to wear his uniform; those not in uniform will not be allowed to participate!**Bring to the session:**Your Aviation Merit Badge Pamphlet. The Aviation Merit Badge Pamphlet can be purchased at the Scout Shop, 3511 Camp Phillips Rd, Schofield. **The FPG-9 model plane.****Preparation for the session:****CAREFULLY READ** your Aviation Merit Badge Pamphlet.**To Register, Complete:**(1) The **“Merit Badge Application”** (blue card), (2) the **“Registration Form”** below, and (3) the **Activity Consent Form**. Give all **three** of these documents to your troop’s Advancement Chair or Scoutmaster, who will forward them to: **Mr. Lyle Freiberg, 806 Broadway Ave. Wausau, WI 54403** Phone: 845-5909**Questions:**

Call Lyle Freiberg at 845-5909

Please complete the **“Registration/Commitment”** form below, cut along the dotted line, and a Scoutmaster-signed **“Merit Badge Application”** and give them to your troop’s Advancement Chairmen or Scoutmaster **before** the deadline date (above). Retain the top portion for your information.

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Registration/Commitment Form for **Aviation** Merit Badge Clinic

(Please print/letter all information)

Scout’s Name _____ Troop _____
(First) (Middle Initial) (Last)

Mailing Address _____

City _____ Zip _____ Phone _____ - _____

On my honor as a Scout I hereby promise to: (1) If for whatever reason, I am unable to attend the session I will call **Mr. Lyle Freiberg (no one else) at 845-5909** **before** that session; I understand that if I fail to do this, that I **will** be **ineligible to participate in district merit badge clinics for 1 year!** (2) **Act like a Scout** at all sessions, and (3) **wear my Scout uniform properly** (buttoned and tucked into pants).

(Signed by Scout)_____
(Date Signed)



ACTIVITY CONSENT FORM AND APPROVAL BY PARENTS OR LEGAL GUARDIAN

This form is recommended for unit use to obtain approval and consent for Tiger Cubs, Cub Scouts, Webelos Scouts, Boy Scouts, Varsity Scouts, Venturers, and guests (if applicable) under 21 years of age to participate in a den, pack, team, troop, or crew trip, expedition, or activity. This form is required for use with flying permits and should be attached to the flying permit application. It is recommended that parents keep a copy of the form and contact the tour leader in the event of any questions or in case emergency contact is needed. Additional copies of this form along with the *Guide to Safe Scouting* are available for download from Scouting Safely at www.scouting.org.

First name of participant and middle initial _____ Last name _____

Address _____ Birth date (month/day/year) ____/____/____ Age during activity _____

Additional address (need street address if you have a P.O. box) _____

City _____ State _____ Zip _____

Has approval to participate in Young Eagles Flight - 2019
(Name of activity, orientation flight, outing trip, etc.)

From 15May2019 to 29May2019
(Date) (Date)

☐ Without restrictions

☒ Special considerations or restrictions: Rain date for 15May is 22May2019

HOLD HARMLESS AGREEMENT

I understand that participation in the activity involves a certain degree of risk. I have carefully considered the risk involved and have given consent for myself or my child to participate in the activity. I understand that participation in the activity is entirely voluntary and requires participants to abide by applicable rules and standards of conduct. I release the Boy Scouts of America, the local council, the activity coordinators, and all employees, volunteers, related parties, or other organizations associated with the activity from any and all claims or liability arising out of this participation.

In case of emergency involving my child, I understand every effort will be made to contact me. In the event I cannot be reached, I hereby give my permission to the medical provider selected by the adult leader in charge to secure proper treatment, including hospitalization, anesthesia, surgery, or injections of medication for my child. Medical providers are authorized to disclose to the adult in charge examination findings, test results, and treatment provided for purposes of medical evaluation of the participant, follow-up and communication with the participant's parents or guardian, and/or determination of the participant's ability to continue in the program activities.

Participant's signature _____ Date _____

Parent/guardian printed name _____

Parent/guardian signature _____ Date _____

Area code and telephone number (best contact and emergency contact)

E-mail (for use in sharing more details about the trip or activity)

Contact the adult tour leader with any questions:

Name Lyle Freiberg

Phone c.715-551-8986 h.715-845-5909 E-mail freiberg@pcpros.net



FPG-9 Styrofoam® Plate Glider

By Jack Reynolds, Volunteer, National Model Aviation Museum

Objective: This simple design requires only a foam plate, a little ambition, and even less time. The FPG-9 plane is a basic illustration of how flight works.

Description: The FPG-9 is constructed from a 9" foam plate. Just two pieces are traced from a pattern, cut out and assembled.

Materials: The materials and tools necessary are:

- FPG-9 pattern
- 9" foam plate
- Scissors
- Clear tape
- Ink pen
- Penny

How to build the FPG-9:

Note – *Since a paper pattern is hard for students to trace around, the instructor may want to cut out a foam plate master template for the students to use to trace around.*

1. Cut out the paper FPG-9 pattern. Do not cut along the dotted line on the paper pattern. Only cut along the bolded lines.
2. Place the paper pattern in the center of the foam plate ensuring that the tail of the pattern stays inside of the curved portion of the plate bottom. (*The tail must remain on the plate's flat bottom.*) It's fine if the tab on the front of the pattern is on the curved portion. The ends of the wings should spill over the curved edge of the plate.



3. Trace around the pattern with an ink pen. Don't forget to mark the scissor slits A and B.
4. Cut the foam template out by following the pen lines you just drew.



5. Once the instructor has completed the master foam template, the students may use the template to create their FPG-9 planes.
6. Have the students place the foam template in the center of the plate and trace around the template making sure to mark all of the lines.
7. When tracing slits A and B the students only need to make one line. These lines will create the elevons and rudder.
8. Have the students cut out the FPG-9 they just traced by following the pen lines.

Important Note – *At this time cut along the dotted line to separate the tail from the wing of the FPG-9. It works better if you make all of your cuts from the outside of the plate towards the center of the plate. Do not try to turn your scissors to cut sharp corners. When cutting out the slots, make them only as wide as the thickness of the foam plate. If the slots are cut too wide the pieces of the plane will not fit together snugly.*

9. The wing and the tail each have slits drawn on them. Have the students make a cut along each of these lines as drawn.
10. To attach the tail to the wing, slide **Slot 1** into **Slot 2**. Use two small (2") pieces of tape to secure the bottom of the tail to the bottom of the wing. Ensure the tail is perpendicular to the wing before adding the tape.
11. In order to make the plane fly successfully, the students must attach a penny on top of the wing right behind the square tab. Fold the tab back over the penny and tape it down to secure the coin.
12. Bend the elevons on the wing upward. This will provide for a flatter glide. If the students want the plane to turn they can adjust the rudder on the vertical fin.
13. Your FPG-9 is complete and ready to fly. *Gently* toss the plane directly in front of you. Once it flies reasonably straight ahead and glides well, try throwing it hard with the nose of the glider pointed 30° above the horizon. The FPG-9 should perform a big loop and have enough speed for a glide of 20 – 25 feet after the loop.