Safety

## Lake Sawyer Hawks

Members should contact any of our [club officers](https://www.lakesawyerhawks.org/all_other_pages/contact_us.php) regarding safety issues or observations.

For 911 emergencies at the field or for GPS location, the address for the closed Hobart landfill is 24041 276th Ave SE, Hobart, WA 98038, on the Issaquah-Ravensdale Road.

## General Safety Policy

In 2011 Bill Newman wrote a short letter to members of the Marymoor R/C Club expressing his philosophy on his new role as club safety coordinator. Our club officers were impressed by Bill's insight and wisdom and decided that the Lake Sawyer Hawks should strive to accomplish Bill's goals. With Bill's permission excerpts of his letter are reprinted here:

"First, my new role as the club’s safety coordinator for 2011 is primarily as a safety ‘conscience’ rather than an ‘enforcer’ of field operating rules. It must be the individual responsibility of each member to fly within both the AMA Safety Code and our club’s field operating rules. Unfortunately our printed rules are necessarily concise; they don’t cover the entire philosophy of how our club operates at Marymoor." "What is unique about our sport (compared to full-scale flying) is that our planes are constantly turning, climbing and diving in a relatively small air space, close to the runway and flying stations. Fun, incident-free R/C flying requires adherence to the ‘three C's’ (my terms) key to our sport: Competence, Courtesy and Common sense.

Competence, or R/C flying proficiency is something that must be achieved by every flying member, particularly new members. It applies to guest flyers as well. An R/C pilot must be able to safely takeoff, land, and keep his model in the designated flying area, conforming with basic pit area and flight line operating procedures. If you’re rusty, particularly after a winter layoff, keep it high and simple for awhile—or get on a buddy box with someone who is proficient.

Courtesy is certainly important when four or five pilot stations are filled and when the "members only" area is crowded. Some of our posted operating rules and all of the "etiquette" items are in this category, along with many unwritten customs (calling takeoffs, landings, on-the-field, etc.) Some of these enhance safety and all promote confidence and trust between members. All club members are encouraged to remind others when breaches of courtesy, especially unsafe ones, are observed...at any time of day.

Common sense, or rather lack of, is why most rules exist in organizations involved with potentially hazardous operations or objects. Our R/C aircraft are potential flying hazards weighing between 1 and 30+ pounds. Proper construction, electronics/servo installation, and balance/trim set-up are mandatory for the model to be mechanically safe, even before we consider pilot proficiency. There are many experienced club members to consult if you’re unsure of model assembly/check-out issues. Common sense is even more critical on the ol’ transmitter. Simply put, don’t attempt a maneuver (this includes altitude) beyond your capability or which violates field rules."

Fire extinguisher

 safety issues or observations.

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## Battery Safety

[RC Groups Lithium Polylmer Battery information](https://www.rcgroups.com/forums/showthread.php?209187-Complete-Guide-to-Lithium-Polymer-Batteries-and-LiPo-Failure-Reports)

[Instructions for Lithium Polymer Battery Use](https://www.lakesawyerhawks.org/pdf/safety_warnings(1).pdf)

[Safely Dispose of LiPo Batteries](https://www.lakesawyerhawks.org/pdf/safety_warnings(2).pdf)

[Lithium Polymer Safety Sheet](https://www.lakesawyerhawks.org/pdf/lipoly_safety.pdf)

## Battery Safety Equipment

[Lipo Sack](http://www.liposack.com/)

[CellShield Lithium Cutoff](https://www.dimensionengineering.com/products/cellshield)

[LipoShield Intelligent Lithium Cutoff](https://www.dimensionengineering.com/products/liposhield)

## Fire Extinguisher Locations

Please make a note of these locations and be sure to have your personal fire extinguisher (Minimum required rating is class "B") at your fueling location when using aviation gasoline.

Fire extinguishers with a Class B rating are effective against flammable liquid fires. These can be fires where cooking liquids, oil, gasoline, kerosene, or paint have become ignited. Two commonly used chemicals are effective in fighting these types of fires. Monoammonium phosphate effectively smothers the fire, while sodium bicarbonate induces a chemical reaction wihich extinguishes the fire.

LIPO Safety

<https://www.liposack.com>

<https://www.dimensionengineering.com/products/cellshield>

<https://www.dimensionengineering.com/products/liposhield>

<https://www.rcgroups.com/forums/showthread.php?209187-Complete-Guide-to-Lithium-Polymer-Batteries-and-LiPo-Failure-Reports>

For 911 emergencies at the field or for GPS location, the address for the closed Hobart landfill is 24041 276th Ave SE, Hobart, WA 98038 on the Issaquah-Ravensdale Road. Or the address may be 24041 SE 276th St, Maple Vallely, WA. Entrance to the field is actually 1/4 mile south of this address as shown in Google Maps (the south end of the landfill).

**Field Rules**

**(January 1, 2021)**

**Members and Guests Must Understand and Follow the Field Rules**

Like all clubs, the Lake Sawyer Hawks have rules. Developed to ensure safety and avoid the loss of AMA insurance coverage in the event of an accident, the rules also remind us to have some basic common sense as we enjoy the hobby of flying Radio Controlled Models. Remember, rules are intended to minimize the occurance and impact of those things that are not likely to ever happen! Here are those rules accepted by the membership:

**Marlow Anderson R/C Airfield - Safety Rules and Regulations**

1. SAFETY IS THE FIRST PRIORITY. Do not fly in a reckless, careless, or dangerous manner.
2. SMOKING: Smoking is NOT allowed anywhere, anytime within the fenced area.
3. NO FIRES: Fires are NOT allowed anywhere, anytime within fenced area.
4. Alcoholic beverages or other legal intoxicating substances are NOT ALLOWED, anywhere,anytime within the fenced area.
5. No RC aircraft shall display any hate markings. The subject mark shall be covered at all times while at the flying field.
6. Maximum model weight is 20 pounds.
7. AMA Membership is mandatory for all pilots.
8. You must be a current Lake Sawyer Hawks Member to fly, unless you are a guest of a member.
9. New members must demonstrate their proficiency before flying solo.
10. All flights will be within the fenced area of Anderson Field.
11. Intentional flying behind the pits is prohibited.
12. If you are sharing a frequency, make sure other pilots know what frequency you are using.
13. All new, repaired or altered aircraft will be range checked and undergo a safety inspection by the pilot prior to flight.
14. All aircraft will lhave identification as required by FAA and AMA.
15. A maximum of four aircraft on the flight line.
16. One flyer per flight station. Using a spotter is recommended.
17. The east-west runway only used for takeoffs.
18. The main runway can be used for takeoffs and landings.
19. Pilots must announce thier intentions to other active flyers e.g. "taking off" - "landing" - "dead stick" - "on the runway".
20. Pilots will give rright of way to and avoid flying in the proximity of full scale aircraft.
21. Spectators and pets must remain in the grassy area west of the pit area or in the parking area.
22. All powered aircraft shall be electric powered. No internal combustion engines are allowed.
23. All electric powered aircraft shall produce sound levels equal to or less than 79db at 25 feet.
24. Motors are to be shut down near the flight station. No taxiing into the pit area.
25. Clean up your area. If you pack it in, pack it out.
26. Pilots will be held liable and financially responsible for their actions and any damages caused by their aircraft.
27. No overnight camping.
28. Have a great day flying and take care of everyone around you.

Weather

<https://www.wunderground.com/dashboard/pws/KWAMAPLE201>

<https://forecast.weather.gov/MapClick.php?lat=47.358&lon=-122.0519>

<https://www.wunderground.com/>

FAA FRIA

<https://www.faa.gov/uas/getting_started/remote_id/fria>

<https://www.modelaircraft.org/>

hawks youtube

<https://www.youtube.com/user/LakeSawyerHawks/videos>

<https://www.modelaircraft.org//media-resources/media-room>

<https://www.modelairplanenews.com/>

<https://www.rcjetinternational.com/>

<http://www.flyrc.com/>

<https://www.youtube.com/watch?v=hgXP4__GjSo>

<http://home.castlecreations.com/>

<https://www.lakesawyerhawks.org/pdf/escnotev3.pdf>

<https://howtomechatronics.com/how-it-works/how-brushless-motor-and-esc-work/>

<https://www.rcgroups.com/forums/showthread.php?952523-too-long-battery-wires-will-kill-ESC-over-time-precautions-solutions-workarounds>

<https://www.rcgroups.com/forums/showpost.php?p=20041803&postcount=566>

<https://www.rcgroups.com/forums/showpost.php?p=19973303&postcount=497>

forums

<https://www.rcgroups.com/forums/index.php>

<http://www.rcuniverse.com/articles/>

<https://www.rcscalebuilder.com/forum/default.asp>

<http://washingtonrcflyer.blogspot.com/>

building

<http://www.airfieldmodels.com/>

<https://www.motionrc.com/blogs/motion-rc-blog/arf-bnf-pnp-rtf-what-does-it-all-mean>

<http://www.bhplans.com/>

<http://bsi-inc.com/>

<https://www.krylon.com/products/craft-foam-primer/>

<https://cdn.shopify.com/s/files/1/1248/3415/files/DUBRO_Hobby_2014-Web.pdf?2663222254274443668>

<https://www.dubro.com/collections/all>

<https://www.flitetest.com/>

<https://robart.com/pages/online-catalog-robart-manufacturing>

<http://www.willingtons.com/mymac/Plans_Download.htm>

<https://www.rtlfasteners.com/Merchant2/merchant.mvc?Screen=SFNT&Store_Code=RF>

**Are You New to R/C?**

**Frequently Asked Questions About R/C Aircraft Modeling**

**Check out the following questions about radio controlled model aircraft building, flying and general R/C model aircraft questions.**

**How much does it cost to get started?**

Although some of the aircraft can be expensive, a person can get started in the R/C hobby for as little as $150 for a basic electric trainer up to $450 for the top of the line RTF trainer. This is not too expensive when you compare it to the cost of golfing or skiing for a season (about $1800 or more).

Many of those new to RC are starting with Electric powered models because they are for the most part the airplanes are cheaper and it takes less equipment to fly.

**How do these miniature aircraft work?**

These are miniature aircraft with the same functions as their full sized counterparts. They fly in the same way with the same controls. The big difference is that they are controlled from the ground with a radio transmitter with control sticks on it. The engines can be either 2-stroke or 4-stroke, gasoline or the high end being the jet turbine. Also gaining a lot of popularity is the electric motor . In the aircraft is a radio receiver that runs electric motors called servos. The servos move the control surfaces of the plane causing it to react to the pilot inputs from the transmitter on the ground.

**Are they dangerous?**

When not treated with due respect and caution, any machine can be dangerous. You must always keep thinking " safety " . We have strict rules and regulations governing the flying of our miniature aircraft. We only fly away from populated areas, and at least five miles away from airports. We are in compliance with rules and regulations of the Academy of Model Aeronautics, and are a sanctioned AMA club.

**How do I learn to fly these R/C planes?**

Come and attend one of our meetings and our members can help you get started. Another good tool is a flight simulator to practice on, and to get a "feel" for what it's like. One good thing about a simulator is, if you crash it won't cost you any money.

Here are some of the most popular ones on the market: Real Flight , Phoenix R/C 5, AeroFly RC7, and FS One.

**Are the models hard to build?**

Most of the kits out today can be built with little fuss. If you are capable of following instructions, you shouldn't have any trouble at all. The instructions that come with the kit usually have pictures and diagrams showing you how the parts should go together. Modern model kits are precision cut (laser) and use the best materials. If you have questions about building a kit, there are many experienced model builders in the Club who would be more than happy to lend a hand. There are also a lot of ARF (Almost Ready to Fly) planes available that get you in the air more quickly.

**What kinds of tools do I need?**

The basic tools include a flat building surface, (a door is good and on top of the door cork or ceiling tile so you can stick your pins in), hobby knife, pins, sandpaper and glue. CA glue (Cyanoacrylate) but watch out DON'T stick your fingers together, it's handy to have a small bottle of DEBONDER handy just in case, and also some epoxy. As you progress in the hobby, you will acquire other tools that help you in your endeavors.

**Do I have to build my own model?**

Part of the intrigue of R/C modeling is the construction of your own flying machine. Seeing your creation in the air adds to the enjoyment. There are, however, other ways of getting into the air.

In the past few years, manufacturers have been selling ARF's (Almost Ready to Fly) airplanes. Which usually comes 95% built but with no engine or radio or electronics.

They also have RTF trainers (Ready to Fly) They come complete with everything needed to get into the air, including the radio and engine already mounted and ready to Fly out of the box. Although you will still have to buy your basic field equipment and fuel or batteries for about for $100. The major structures have already been built and finished. It only takes a few hours to put it together. The quality and functionality of these models has gone up greatly in the past few years, while the price has come down. The RTF Trainer's in my opinion are really the best route to go for a beginner.

Here are some great examples of RTF (Ready to Fly) Trainers: Hobby Zone Apprentice and E-fliteTimber. These planes come in several sizes from Horizon Hobby. Join a club and get advice from other fliers!

Today, Horizon Hobby offers a number of airplanes by completion level: Ready-to-fly, Bind-N-Fly, Plug-N-Play, Ready-to-Cover, Almost Ready-to-Fly, and Kits.

**How fast do they fly?**

Their flying speeds can range from about 15 mph to over 200+ mph ( jet turbine). The speed of an average sport model flown in this area from 20 to 50 mph.

**How big are they?**

A typical sport model or trainer can have about a five foot wingspan and weigh from four to eight pounds. There are single and multi-engined models that can have twelve foot wingspans and weigh twenty pounds or more. Jet turbines have been increasing in popularity. Most models can be disassembled for transportation with the wing being detached from the fuselage.

**How long does it take to fly on your own?**

That all depends on the student, and how much time an individual can spend with the instructor. A good guess would be three months to a year on the average. The more time (hours) a student can get, the faster (he or she) can fly solo and receive their "wings".

Get started now by taking the free Online RC Airplane Ground School offered by RC Airplane World.com This ground school has a whole lot of great information you need to know. It is a great way to learn a whole lot in a little amount of time. I highly recommend it!

# 2024 Lake Sawyer Hawks (LSH) Membership Application

## How to Join or Renew Membership

###### (10-10-2023)

We invite you to become a member of our club and enjoy this exciting, challenging, and satisfying hobby. You are welcomed and encouraged to attend our meetings or visit our flying sites before joining. You may contact a club member to arrange for entry to our field.

**Experienced flyers** may contact a Lake Sawyer Hawks member and arrange for flying at our field to determine if they want to join our club. Members can answer questions about flying conditions and the posted field rules. **All new members must complete a Check Flight before flying solo.**Contact a club Officer to complete a [Check Flight](https://www.lakesawyerhawks.org/all_other_pages/contact_us.php).

**New to RC flyers** that want some flight instruction before completing a Check Flight may also visit the field with a Lake Sawyer Hawks member to observe a member flying that can also answer questions about flying conditions, what planes are good trainers, other R/C equipment, and the posted field rules. Contact [Randy Ling](https://www.lakesawyerhawks.org/all_other_pages/contact_us.php) to arrange for flight instruction.

After determining that you want to join our club, new members must have Full or Youth Adademy of Model Aeronautics (AMA) Membership, then complete a Lake Sawyer Hawks Membership Application that requires an annual update. Membership runs from January 1 to December 31.

New or renewing members may join after October 1 for the remaining current year and the next annual dues period.

## Lake Sawyer Hawks (LSH) Membership Type

| **Membership Type** | **Age** | **LSH Dues** | **Requirements** |
| --- | --- | --- | --- |
| Full | After 19th Birthday | $70 | Adademy of Model Aeronautics (AMA) and Lake Sawyer Hawks Membership. |
| Spouse | After 19th Birthday | Free | If Flying, must have Academy of Model Aaeronautics (AMA) and LSH Membership Application Annual Update. |
| Youth | Before 19th Birthday | Free | Must have Youth Aacademy of Model Aeronautics (AMA) and LSH Membership Application with Parent/Legal Guardian Signature. |
| Park Pilot | N/A | N/A | Not applicable to any LSH flying sites. |
| Non-Flying | After 19th Birthday | Free | Non-voting, welcome to attend all events, LSH Membership Application required. |