



Member Handbook

Fishers Parks & Recreation: Maker Playground

8100 106th Street Suite 150

Fishers, IN

fishersmpg.com

(317) 595-3150 (8:30am-4:30pm)

makerplayground@fishersin.gov

Hours of Operation:

Mon-Fri: 10am-8pm

Saturday: 10am-5pm

Closed Sunday

Index

Membership Terms of Use.....	2-6
Accessibility Accommodations.....	7-8
Maker Playground Facility Rules.....	9-10
List of Available Equipment & Tools	11
Rules for Safe Operation	12-17
Table Saw.....	12
Thickness Planer	13
Miter Saw	14
Band Saw.....	15
Router Table.....	16
Jointer.....	17
How to Make an Equipment Reservation	18-21
Reservation Procedures	22-25
Laser Engraver.....	22
Fiber Laser.....	23
CNC Router.....	24
3D Printers.....	25-26

Maker Membership Terms of Use

Welcome to Maker Playground (“MPG”)! Anyone 16 years or older who has completed all required onboarding and safety training can become a member and work in the shop. We are so excited to get to know you and see what you will create! Please refer to this handbook as your guide for use of the space. We highly recommend you download and save this PDF for future reference as you continue to explore and make. Maker Playground members agree to follow all facility rules and safety guidelines. Staff may restrict use if a member cannot demonstrate safe operation.

Code of Conduct

Maker Playground is committed to creating a safe, inclusive, and respectful environment for all members. We welcome individuals from all backgrounds, regardless of age, race, ethnicity, gender, sexual orientation, disability, religion, or any other characteristic.

Treat all members with respect and consideration. Keep conversations professional and appropriate. Be mindful of your words and actions, and avoid behavior that may be harmful, offensive, or disrespectful.

Harassment and discrimination in any form will not be tolerated. This includes, but is not limited to, offensive comments, slurs, jokes, intimidation, unwelcome attention or physical contact, and any other behavior that creates an uncomfortable or hostile environment for others.

If you experience or witness any behavior that violates this Code of Conduct, please report it to a staff member. All reports will be taken seriously and will be kept confidential to the extent possible.

Violations of this Code of Conduct may result in suspension or termination of membership subject to City of Fishers discretion.

Acceptable Use

Maker Playground equipment may not be used to manufacture illegal items, weapons, unsafe products, or objects intended to cause harm. Staff may refuse or stop any print or project deemed unsafe, inappropriate, or inconsistent with Maker Playground or City of Fishers policies.

Membership Card

When you become a member, you’ll receive a membership card. This card will grant you access to MPG during open hours. Please check in at the receptionist desk with your card when you first enter MPG each day. If your membership card is lost, please contact makerplayground@fishersin.gov.

Personal Protective Equipment

PPE is required to be worn in designated work spaces. Maker Playground has basic PPE

including safety glasses and foam earplugs available to members. Members and visitors are welcome to bring their own, provided it meets or exceeds [ANSI](#) requirements. Any additional desired PPE, such as dust masks, will need to be brought in.

Orientation

Before utilizing any of the equipment at Maker Playground, you will be required to watch safety training videos specific to our Table Saw, Miter Saw, Planer, Bandsaw, Router Table, and Jointer. These training materials can be found on www.fishersmpg.com. Find the videos in "Required Training" under the "Member Resources" tab.

Tool Checkout Procedure

Ask staff if you would like to use any of the listed tools available to check out. Staff will check this item out to you under your name. After use, return any tools to the red tool return cart near the door to be checked back in by staff. Provided tools must remain in MPG at all times; do not take any supplied equipment out of Maker Playground. Hand tools in the space are available to use without being checked out, and should be returned where they are found before leaving.

Equipment Reservation Procedure

In order to ensure access to all members, we require you to reserve a time slot when you plan to use certain machines. Reservations are required to use the laser engravers*, fiber laser*, CNC router*, wood lathe †, and 3D printers.

All machines are reserved on a first come, first serve basis and each have time limits to ensure availability for all members. See the individual tool reservation procedures below to learn more about maximum reservation times and what to prepare for your reservation.

Visit "Equipment Reservation" under the "Member Resources" tab at www.fishersmpg.com to reserve a machine prior to your arrival. Please allow some time at the end of your reservation to clean up for the next member. A step-by-step guide on how to make a reservation can be found on pages 18-21. Information on what to prepare for your time slot can be found on pages 22-26.

If you are unable to keep your reservation, please contact us to cancel your time slot before it begins. You may email us at makerplayground@fishersin.gov any time or call the front desk at (317) 595-3150 between 8:30am and 4:30pm. Recurring missed reservations without notice will result in temporary loss of permissions to reserve equipment.

***Training Sessions**

Members must complete additional, thorough training to use the laser engravers or CNC router. Find online laser training on our website [here](#). Find online CNC training on our website [here](#).

†Lathe

At this time, we do not offer any training or classes on our lathe. We highly recommend taking a lathe class or having prior experience before using our lathe. Lathe classes are occasionally available at Rockler or Woodcraft. Members must attest they understand the use and risks of the lathe before use. Staff may restrict use if a member cannot demonstrate safe operation.

Additional Training

Maker Playground has many tools available which are not addressed in our training videos. Ask staff for quick demos and training on other equipment you may not be familiar with prior to using.

SawStop Activation Policy

All members utilizing the SawStop Table Saw must operate in accordance with all safety guidelines provided during safety training and detailed within the member handbook. The SawStop table saw is equipped with a safety brake designed to protect operators from severe injury. However, the brake will also activate when contact is made with any conductive material such as metal (nails, staples, or clamps) and wood that has a high moisture content or has not been fully kiln dried.

In the event that a member trips the SawStop brake due to misuse, a non-refundable fee of \$100, plus any applicable processing fees, will be charged to the member's card on file to cover the cost of a replacement brake.

Misuse includes, but is not limited to:

- Cutting materials not approved for use with the SawStop Table Saw, such as wood with metal staples, nails, or other conductive materials
- Using wet or damp wood
- Improper operation that fails to follow safety guidelines outlined in the handbook or SawStop training video

Members will be notified of the fee upon assessment. Refusal to pay the fee may result in termination of membership.

If you have questions about proper operation or materials that can be safely used with the SawStop table saw, please ask a staff member for assistance prior to use.

Project Materials

Maker Playground is here to provide you with the tools you need to make your project! However, Maker Playground does not provide project materials. Some lumber supplied by outside vendors may be available to purchase by Venmo found on QR codes in the space. We also have scrap bins with small amounts of wood available under the miter saw in the wood shop. Otherwise, please bring your own wood, finishes, etc.

Project & Material Storage

Overnight storage for lumber or larger projects is only granted for glue-ups and for members who will be returning immediately the following day to continue work. All pieces must be labeled with your name and current date and be stored in a designated storage area. Green or undried lumber may not be stored at Maker Playground at any time. Finishes or chemicals may be stored in our flammables cabinet, and should be kept in their original container and labeled with your name. Items left longer than one week may be discarded, donated, or repurposed at staff discretion. Maker Playground is not liable for damaged or stolen project materials. Stored materials may only be accessed during Maker Playground open hours.

Epoxy & Finishing

We are currently unable to provide adequate ventilation and storage space for curing large epoxy pours or finishing large projects. Epoxy for small patches and knots is acceptable, however, deep epoxy pours such as river tables must be completed off-site. Similarly, wipe-on oils for small projects are okay to apply in the space, but spray finishes and many heavier brushed finishes produce fumes we are unequipped to vent. Please finish these types of projects off site.

Staff

Staff are here to ensure everyone is operating machinery safely and proper use of tools and equipment. Staff are also happy to help with design techniques, tips, tricks, and advice. Members are responsible for all project decisions and outcomes. MPG Staff are not an extra set of hands for completing projects.* Projects should be within reasonable size to complete by yourself and be entirely self directed. Staff provide guidance only. Members are responsible for all project decisions and outcomes.

DO:

- request tools from the back room
- request a quick refresher or demonstration on a machine with a process you are less familiar with (i.e. cross-cutting a board on the table saw or jointing the edge of a board on the jointer)
- ask clarifications about tool operation (i.e. how to change a angle grinder disc or angle the miter saw)
- ask advice about your process (i.e. "Is there an easier way to add a juice groove to my cutting board?" "Which of these processes should I do first?")
- notify staff about machine maintenance (i.e. blade broke or sandpaper needs changed - note depending on the task and how busy we are, maintenance may not be completed immediately)

DON'T:

- monopolize staff time

- expect staff to complete cuts or projects for you
- ask staff to teach you the entire process of making an in-depth project (Youtube is a great resource!)
- use staff as your personal assistant for project operations or heavy lifting (i.e. running large boards through the planer - we have roller stands available for this purpose - or unloading excess amounts of lumber from your vehicle - use a cart!)*

*Consider utilizing a Guest Pass and bringing a friend if you need assistance completing a large project!

Punch Card Memberships

Punch Cards allow registrants access to use the Maker Playground on five separate occasions. Punch Card members WILL NOT receive a membership card, and will need to check in with staff every visit in order to access the space. Each punch grants access to Maker Playground for the duration of the open hours of that day. Punchcard registrants, like all members, will be required to complete orientation before utilizing the space. In order to ensure our members are up to date on safety procedures and tool usage, punch cards expire one year after activation and can be renewed by rewatching our safety videos.

Guest Passes

Maker Playground offers a \$25 Guest Pass that allows members to bring in a guest for one day. Members are encouraged to utilize a Guest Pass if they need an additional hand with completing a project, or if they'd like to bring someone in for a fun day of making without an additional membership commitment. All individuals working in the space must be at least 16 years old unless otherwise approved through official Maker Playground programming.

For additional information or to purchase a Guest Pass, ask a staff member.

Membership Cancellation Policy

Members can cancel their membership by emailing makerplayground@fishersin.gov. Please allow 10 business days for cancellation to process. To avoid being billed for the next month, notify us 10 business days prior to the start of the next billing cycle. Prorated refunds are only available for yearly billed memberships. Members may also pause their membership to be easily continued at a later date.

Accessibility

Fishers will, upon request, provide appropriate aid and/or assistance and services leading to effective participation for people with disabilities to participate equally in Fishers programs, services, and activities.

Anyone who requires an auxiliary aid, assistance, or service for effective participation or modification of policies or procedures to participate in a service, program, or activity, should contact Nick Snyder via email or at (463) 231-7294, no later than forty-eight (48) hours before the scheduled event. To request an interpreter, please contact Customer Service at (317) 595-3150 or at parks@fishersin.gov.

Personal Protective Equipment

Some areas of Maker Playground may be extra loud when machinery and equipment are in use. Standard protective eyewear and hearing protection are provided and required in certain areas and when working with tools. These requirements are posted at entry points throughout the facility. Members and visitors are welcome to bring their own PPE, provided it meets or exceeds [ANSI](#) requirements.

Adaptive Tools

Maker Playground offers individuals of all abilities the opportunity to create. Below is a list of adaptive tools and accommodations. Don't see an adaptive tool on the list? Is there a tool or other accommodation that could support your use of the Maker Playground? Let us know so we can add it to our toolbox.

- Loop Scissors: Loop scissors pop open after use to make it easier to stay in control and stable.
- Hand Aid: Hand Aids provide a comfortable grip on a pen, pencil, paintbrush, etc. One end is flat to prevent rolling.
- Magnifying Glass: Our articulated magnifying glass is ideal for those with low vision. It magnifies up to 5x and provides additional light. It is held by an articulated arm so users can move it in place over their work.
- KultureCity Sensory Bags: Maker Playground and Fishers Parks is partnered with KultureCity to make sure that Maker Playground is sensory inclusive and welcoming for all. Sensory bags, including noise canceling headphones (provided by Puro Sound Labs), fidget tools, verbal cue cards (produced in conjunction with Boardmaker), and weighted lap pads, are now available to all guests who may feel overwhelmed by the environment.

Service Animals and Personal Care Attendants

Service animals are permitted with members and guests, although there are some spaces within Maker Playground where service animals are not permitted for the health and safety of both the service animals and members. These areas include the Woodshop and the Metal Shop. Machinery and equipment in these areas creates an undue risk to service animals.

Personal Care Attendants are permitted at Maker Playground without a membership or additional fee. Personal Care Attendants must be present to assist a member in order to qualify for free access.

Language Interpretation Services

Maker Playground staff have access to language interpretation services to support communication with members, guests, and program participants. Interpretation services are available in more than 200 languages and may be used for tours, safety discussions, programs and classes, membership assistance, and other facility interactions when needed.

Maker Playground Facility Rules

1. Get Safety Training & Follow All Safety Procedures

In order to ensure our members are knowledgeable and competent on our equipment, required safety videos are listed on our website. If you are unfamiliar with a machine at Maker Playground, ask our staff for help or request additional training. **Do not operate any machinery, equipment, or tool for which you have not been properly trained.**

Individual machine rules are posted on laminated sheets near each machine for your reference. If you are uncertain about the safety of a cut or how to safely complete a specific task, ask our staff and we can ensure that you're doing things in the safest possible way.

2. Respect Our Tools

Treat our tools like you would your own. **Do not abuse the machines or use our tools in an unauthorized way.** All safety procedures are in place to protect both yourself and our machines. Stay aware of the sounds on the machine you are working with and never force a cut or operation beyond a tool's limits. **Report any damaged equipment or tools to Maker Playground staff, and do NOT try to make repairs or unauthorized modifications to equipment.** Return all tools and leave all machines in a clean and ready-to-use state. **Keep food and drink out of working spaces and away from tools. Never leave a machine running unattended.**

3. Come Prepared

Wear shop appropriate gear at Maker Playground: wear close toed shoes, tuck in loose articles of clothing, and tie long hair back. Be sure to wear PPE - safety glasses and hearing protection is available at Maker Playground. Make sure you are fully awake and present while working at MPG. Bring your own materials and be prepared to take any projects home with you. **Make a reservation for your machine where applicable** and have any files you need ready. If you require additional help on a machine, let one of our staff know to schedule a time with you when they can assist.

4. Be Considerate of Other Members

Maker Playground is a communal workspace. Be respectful of other members and always follow Maker Playground's Code of Conduct. **Don't help yourself to other members' materials. Be mindful of others working around you and do not block**

walkways. Keep your workspace organized, and **restrict projects to one work bench whenever possible** to allow room for other members. Stationary tools should be cleared off. **Checked out tools should be cleaned and returned to the tool return cart after use.**

5. **Clean Up As You Work**

Clean up sawdust and other debris on and around any machines you were working with and **return tools where they belong. You are responsible for completing setup, work, and cleanup within your reservation time or before closing.** If you brought materials and tools into the space, we ask that you remove them at the end of your visit unless a storage cabinet has been purchased or storage has been discussed with staff.

6. **Check In and Manage Guest Access**

All members must check in upon arrival using the kiosk or with staff. This ensures your membership is active and helps us maintain a safe environment. Members may bring a visitor for a brief tour, but must check in with staff upon arrival. Staff may decline tours based on safety, capacity, or operational needs. **Maker Playground is an active workshop and not a drop-in or childcare space. Children are only permitted in the facility if they are participating in a scheduled program, or if they are 16 or older with a valid membership or Guest Pass.** Members utilizing the Guest Pass are responsible for their guests at all times. All visitors must follow Maker Playground rules and safety policies.

7. **Always Listen to Staff**

Obey all instructions given by Maker Playground staff. If staff instructs you to stop operating a piece of equipment, do so immediately. Staff may stop any job deemed unsafe or improperly set up. Staff may also suggest safer methods of completing a task. Report any unauthorized use of machines and dangerous behavior to Maker Playground staff.

List of Available Maker Playground Equipment & Tools

Think Tank

- Ultimaker 2+ 3D Printer
- Ultimaker S3 3D Printer
- Bambu Lab P1S 3D Printer with AMS (x2)

Project Alley

- Boss Laser HP 3655 Laser
- Aeon Super Nova 14 Laser
- EMP ST50J Fiber Laser

Tools Available for Checkout:

- Drill
- Driver
- Impact Wrench
- Oscillating Multi-Tool
- Cordless Grinder
- Hand Planer
- Palm Sander
- Orbital Sander
- Finish Nailer
- Restorer Belt Sander
- Festool Vacuum
- Framing Nailer
- Pin Nailer
- Router Kit
- Cutout Tool
- Biscuit Joiner
- Jig Saw
- Track Saw
- Circular Saw
- Reciprocating Tool
- Festool Domino

Woodshop

- 4' x 8' Shopbot CNC Router
- Sawstop Table Saw
- 20" Planer
- Compound Miter Saw
- 20" Wood Lathe
- 16"/32" Drum Sander
- Combination Belt & Disc Sander
- Spindle Sander
- 6" Jointer
- 20" Scroll Saw
- 17" Band Saw
- Router Table
- Benchtop Drill Press

Table Saw Safe Operation

1. Wear proper eye and hearing protection.
2. Secure any loose clothing, long hair, dangling jewelry, etc.
Any of these items might get caught in the blade and yank you into it before you can react.
3. Do not wear gloves while operating.
Gloves can reduce your gripping power and tactile strength, and most of all be loose enough for the rotating blade to grab, resulting in worse injury.
4. Stand to the left of the blade, with your feet apart for good balance while operating.
Stand to the left side of the blade to stay out of the way of sawdust and any possible kickback. Position your body firmly while operating the saw to avoid losing your balance and grip on your piece.
5. Keep the floor in front of the saw and work area clean to avoid tripping or slipping.
6. Check your material before cutting. No green wood, staples, or nails!
Our SawStop will be activated by anything conductive, which immediately stops the saw and destroys the blade. This is good for the safety of your fingers, but it will also be triggered by any metal, wet wood, or wet paint on anything being cut. In addition to this, be aware of any loose knots in your lumber that may pop out while making your cut.
7. Never operate the table saw with the throat plate removed.
Wood that falls into the hole can drop down and get caught on the blade. Use a zero clearance throat plate when cutting very thin pieces.
8. Adjust the blade height just high enough for one blade tooth to clear your material.
9. Always use the fence and a push stick while ripping.
Guide your material into the blade while keeping your material firmly against the table and fence. Use a push stick to push the end of stock that is 6" or less in width past the blade.
10. Always use a miter gauge or cross-cutting sled while crosscutting.
Never rely on the fence for this purpose. You will be unable to keep your piece completely straight with the fence alone, and this creates a perfect recipe for a kickback if the saw blade catches a corner of your piece.
11. If a procedure feels unsafe, it probably is. Find another way to do what has to be done.
12. Make sure nothing is touching the blade before turning on the saw.
Allow the saw to speed up completely before feeding your piece into the blade.
13. Push your piece past the end of the blade and riving knife.
Releasing work too early can cause kickbacks as it is possible for the blade to grab any part that has not yet gone by.
14. Make sure that the blade has stopped turning before you adjust the table saw.
15. Any operations that require reaching into the cabinet, such as switching to a dado blade or riving knife, must be done by our staff.

Thickness Planer Safe Operation

1. Wear proper eye and hearing protection.
2. Secure any loose clothing, long hair, dangling jewelry, etc.
Any of these items might get caught in the blade and yank you into it before you can react.
3. Always make sure to run the dust collection while operating the planer.
4. Don't plane material shorter than 12".
Materials that are too short will not reach the outfeed rollers and get stuck inside of the planer.
5. Never run materials containing nails, screws, or other metallic objects.
These will nick the blades and possibly get thrown out of the planer.
6. Don't plane material that has paint or finish on it.
This gums up the blades.
7. Be cautious of loose knots, splits and other defects in wood.
These defects can tear out and jam the planer.
8. Always plane with the grain. No end grain cutting boards or cookies!
9. Always keep hands 6" away from the infeed area.
10. Never stand in front of or behind stock going through planer.
Similarly, never crouch down to look into the blades of the planer. Though we have anti-kickback feed rollers, stay out of the path of the material if it or any small residual pieces were to kick back or fly out.
11. Plane one piece at a time or butt them end to end. Never plane side by side.
This avoids kickback caused by uneven thicknesses.
12. Do not place your fingers under your material while pushing it into the planer.
The planer will flatten the board and pinch your fingers between the board and planer surface. Push the material in while flat against the surface.
13. Don't raise or lower the table while stock is in the planer.
Always adjust the height before you feed your material.
14. Do not try to remove more than 1/16" at a time.
15. Do not plane stock less than 1/4" thick.
16. Don't remove debris unless the planer has come to a complete stop and is unplugged.
17. If the planer malfunctions or makes abnormal noises, stop the machine immediately and report to staff.

Miter Saw Safe Operation

1. Wear proper eye and hearing protection.
2. Secure any loose clothing, long hair, dangling jewelry, etc.
Any of these items might get caught in the blade and yank you into it before you can react.
3. Do not wear gloves while operating.
Gloves can reduce your gripping power and tactile strength, and most of all be loose enough for the rotating blade to grab, resulting in worse injury.
4. Be sure all scraps have been removed from around the blade before using the saw.
5. Never cut any material shorter than 8".
6. Never secure material with your hands or fingers closer than 6" from the blade.
7. Your arms should always remain parallel to each other while using the saw. Never cross your arms in front of the saw to hold your material.
You should almost always hold the material with your left hand and control the saw with your right.
8. Always firmly hold your material against the fence.
9. If you have to cut slightly bowed material, place material with the curve facing out so that the blade doesn't bind during the cut.
10. Never attempt to rip material on the miter saw.
Never attempt to cut material that is wider than it is long on the miter saw. The longest direction should always be the one against the fence.
11. When crosscutting wider material, start with the outermost width of the material and push the saw towards the fence.
This maintains control of the saw and helps to prevent the saw climbing towards the user.
12. Avoid trapping your material between any stop blocks and the blade.
When cutting at angles, cut the acute angle away from the stop block.
13. If a procedure feels unsafe, it probably is. Find another way to do what has to be done.
14. Allow the blade to reach full speed before cutting.
15. Never remove or hold the guards out of the way while using the miter saw.
16. After cutting through your material, allow the saw blade to stop spinning completely before returning it to its initial position.
This prevents the saw from catching your material as it is being moved back up.

Band Saw Safe Operation

1. Wear proper eye and hearing protection.
2. Secure any loose clothing, long hair, dangling jewelry, etc.
Any of these items might get caught in the blade and yank you into it before you can react.
3. Do not wear gloves while operating.
Gloves can be loose enough for the moving blade to grab, resulting in worse injury.
4. Make sure the blade is properly tightened.
5. Adjust the upper guard assembly so that it is approximately ¼" above your material before turning on the machine.
6. Allow the saw to reach full speed before starting to feed the work.
7. The wood must stay flat on the table while cutting.
8. Feed the wood only as fast as the teeth will remove the material easily.
9. Maintain a 4" margin of safety!
Your hands MUST be at least 4" away from the blade when the saw is running.
10. Plan relief cuts ahead to avoid backing out of curves whenever possible.
Make turns carefully and use relief cuts so that the blade does not twist and break. STOP the machine before backing out of a LONG curve cut.
11. If the saw stalls in a cut, turn the power off and reverse the blade by hand to free it.
12. When resawing, use the resaw fence and a push stick.
13. ROUND stock should NOT be cut unless mounted securely with a jig.
14. If a procedure feels unsafe, it probably is. Find another way to do what has to be done.
15. If you hear a clicking noise, or if the blade breaks, turn the machine OFF!
This noise indicates a crack or broken blade. Alert Maker Playground staff.
16. Turn the saw off as soon as you are finished with your work.
17. Do NOT open the wheel doors yourself!
If you need to change the blade, inform staff.

Router Table Safe Operation

1. Wear proper eye and hearing protection.
2. Secure any loose clothing, long hair, dangling jewelry, etc.
Any of these items might get caught in the bit and yank you into it before you can react.
3. Do not wear gloves while operating.
Gloves can reduce your gripping power and tactile strength, and most of all be loose enough for the rotating bit to grab, resulting in worse injury.
4. Always make sure to run the dust collection while operating the router.
5. Make sure the job size is appropriate for the router table.
Very small pieces could get caught between the fence and bit and should not be cut. Large workpieces should be cut with a hand-held router.
6. Check your material before cutting. Beware knots, heavy warping, and twisty grain.
7. Make sure the wheels on the table are locked and the table feels secure.
8. Be sure to unplug the router before changing the bit.
9. Don't bottom out the bit in the collet or partially insert the bit. Ensure that the collet is securely tightened using the wrenches provided with the router.
We suggest completely inserting the bit, and then backing off approximately 1/16 in.
10. Use the smallest diameter table insert that will allow the bit to pass through it.
11. Minimize the gap in the fence.
Adjust the fence halves so that they come to within 1/16" to 1/8" from the bit.
12. The workpiece must always be in firm contact with the fence or a rub bearing mounted on the bit. Do not try to make free-hand cuts.
13. Never start the router with the bit in contact with the stock.
14. Feed from right to left.
Never climb cut unless the depth of cut is 1/32" or less and the workpiece is secured and held down by feather boards.
15. Use push blocks or featherboards to position your hands a safe distance from the bit and make sure the piece is held firmly.
16. Take light cuts. Don't force the bit or overload the router.
Heavy cuts invite kickback. If necessary, move the fence closer to the bit or switch to a larger guide bearing.
17. Never adjust a jig or the fence position with the router running.
18. If a procedure feels unsafe, it probably is. Find another way to do what has to be done.

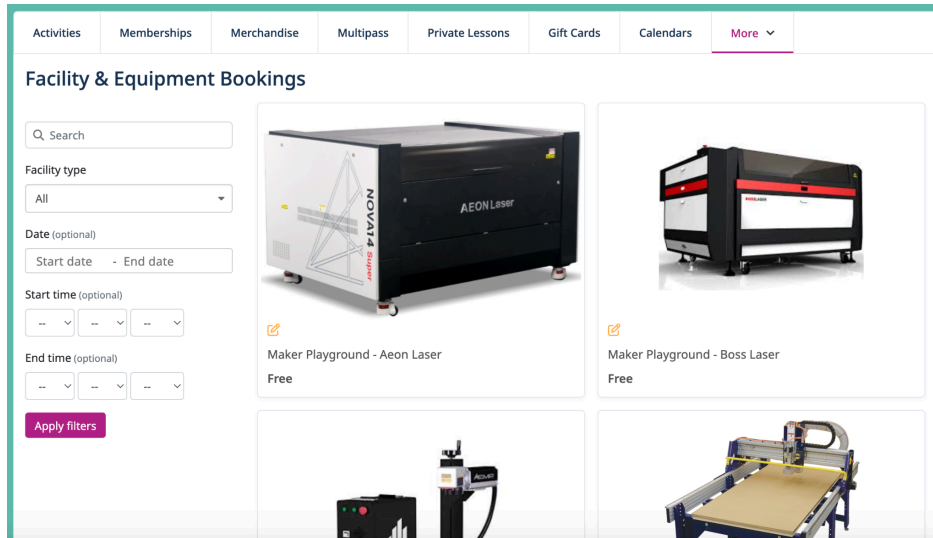
Jointer Safe Operation

1. Wear proper eye and hearing protection.
2. Secure any loose clothing, long hair, dangling jewelry, etc.
Any of these items might get caught in the cutterhead and yank you into it before you can react.
3. Do not wear gloves while operating.
Gloves can reduce your gripping power and tactile strength, and most of all be loose enough for the rotating blades to grab, resulting in worse injury.
4. Always make sure to run the dust collection while operating the jointer
5. Never run materials containing nails, screws, or other metallic objects.
These will nick the blades.
6. Don't joint material that has paint or finish on it.
This gums up the blades.
7. Be cautious of loose knots, splits and other defects in wood.
These defects can tear out and cause kickback.
8. Always joint with the grain. No end grain cutting boards or cookies!
9. Keep hands away from the cutterhead.
10. Do not stand in the direction of potential kickback.
11. Set the fence to reveal only as much of the cutting head as you need.
The less of the head that is exposed, the less likely you'll have any chance to come into contact with it.
12. Never start the jointer with the bit in contact with the stock.
13. Always support the workpiece against the fence and table.
14. ALWAYS use grips or push blocks when planing face grain.
Push blocks keep something between your hands and the cutterhead at all times and make sure the piece is held firmly.
15. Do not try to remove more than 1/8" at a time.
16. Do not joint stock less than 8" long, 3/4" wide, or 1/2" thick.
17. Feed work against the direction of rotation of the cutterhead only.
18. Never adjust the fence position or cut depth with the jointer running.
19. If the jointer malfunctions or makes abnormal noises, stop the machine immediately and report to staff.

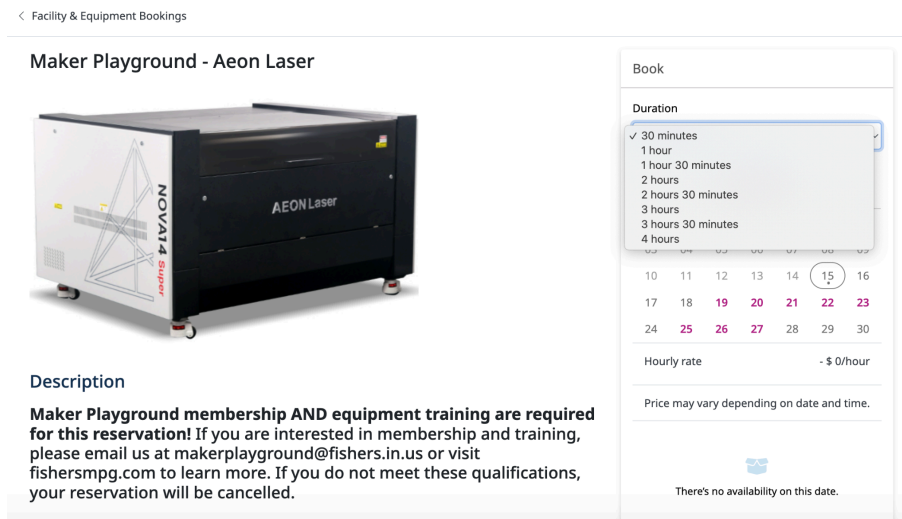
How to Make a Maker Playground Equipment Reservation

Before your reservation, please ensure your file is prepared and any material you are using is approved. Make sure your reservation is long enough to complete your job and clean up afterwards.

Visit the [Facility & Equipment Bookings](#) page in Amilia after claiming your account. It may be helpful to bookmark this page for your future reference.



Select the machine you want to reserve.



Select the "Duration" of your reservation. Reservation durations vary by machine. See individual equipment sections for details. Once you select a Duration, you will be given dates and times the machine has availability for the selected duration of time.

Maker Playground - Aeon Laser



Description

Maker Playground membership AND equipment training are required for this reservation! If you are interested in membership and training, please email us at makerplayground@fishers.in.us or visit fishersmpg.com to learn more. If you do not meet these qualifications, your reservation will be cancelled.

Our Aeon Supernova 14 Laser Cutter features both a 150W glass CO2 tube and a 60W metal RF CO2 tube and

Book

Duration

4 hours

< November 2024 >

Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	31	01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Hourly rate - \$ 0/hour

Price may vary depending on date and time.

2 pm - 6 pm >

2:30 pm - 6:30 pm >

3 pm - 7 pm >

3:30 pm - 7:30 pm >

4 pm - 8 pm >

Select a date and time.

Activities Memberships Merchandise Multipass Private Lessons Gift Cards Calendars **More** ▾

< Maker Playground - Aeon Laser

Maker Playground - Aeon Laser reservation for Cassy Coha

November 20, 2024 2:30 pm - 6:30 pm
Free

Choose participant

Cassy Coha

+ Add a person

MAKER PLAYGROUND MEMBERSHIP REQUIRED (optional)

I am currently a Maker Playground member and have received staff approval to reserve this equipment.

Add to cart

You are required to have an active Maker Playground membership and have received applicable training to make equipment reservations. Make sure to check the box at the bottom of the page to certify these requirements. Then, click "Add to cart".

Maker Playground - Aeon Laser reservation for Cassy Coha

November 20, 2024 2:30 pm - 6:30 pm
Free



Great! The item has been added to your cart

Continue shopping

Checkout

“Continue Shopping” to add additional reservations, or click “Checkout” once you are finished adding times.

1 Order

2 Information

3 Payment

Order: 1 item

Maker Playground - Aeon Laser
Nov 20, 2:30 PM-6:30 PM
Cassy Coha [Remove](#)

Order total \$0.00
> Have a discount code?

Add custom item

Continue shopping Proceed to checkout

Verify your reservations, and click “Proceed to checkout”.

1 Order

2 Information

3 Payment

Validate all sections to continue your purchase.

Information

Please make sure that your personal information is up to date

Account owner : Cassy Coha
Updated: 11/16/2024

Update personal information

Continue shopping Proceed to payment

Verify or fill out your required information, and click “Proceed to Payment”.

Confirmation

Your order has been successfully completed.
Invoice Number: 26656085
Date: 11/15/2024

Client
Cassy Coha

Organization
Fishers Parks
8100 E. 106th Street, Suite 150
Fishers, IN
46038

Facility Bookings

Maker Playground - Aeon Laser	\$0.00
🕒 Wednesday, November 20, 2024 2:30 PM - 6:30 PM	
👤 Cassy Coha	

Sub Total \$0.00
Order Total \$0.00

[Return to store](#) [Print](#)

All reservations are free, so this step will confirm your reservation(s)!

Make sure you always navigate through to the Confirmation page or your reservation will not be secured.

Canceling a Maker Playground Equipment Reservation

Please email makerplayground@fishersin.gov any time or call (317) 595-3150 between the hours of 8:30am and 4:30pm to cancel an equipment reservation.

Boss Laser HP3655 / Aeon Super Nova 14 CO2 Laser Reservation Procedure*

*You must have completed the online laser training and created a Lightburn file to be certified to reserve time on either laser engraver. [Find all the steps to complete laser training on our website here.](#)

Please have your vector or image file ready to import into Lightburn prior to your appointment. If your file is complex, you can prepare your file in Lightburn ahead of time on our MPG laptop. Be sure to ask for the laptop with Lightburn installed.

Lightburn will provide a rough time estimate for your file. Be sure that the time estimate fits within your reserved time slot.

Minimum reservation time: 30 minutes / Maximum reservation time: 4 hours

Maximum Job Size: 55x36"

Software: Lightburn

BOSS Laser Wattage: 150W Glass Tube

AEON Laser Wattage: 150W Glass Tube / 60W Metal Tube

Compatible File Types:

image: .bmp, .jpg, .jpeg, .png, .gif, .tif, .tiff, .tga

vector: .ai, .pdf, .dxf, .hpgl, .plt, .rd, .svg, .lbrn

Approved Materials for Cutting & Engraving:

- Hard Woods
- Soft Woods
- Plywood
- Masonite
- Corkboard
- Acrylic/Plexiglass
- Rowmark
- Delrin/Acetal
- Mylar/PET Film
- Cardboard
- Paper/Cardstock
- Untreated Leather/Suede
- Fabric (no vinyl)
- Felt
- **Laser-Safe** Foam
- **Chlorine-Free** Rubber

If you would like to cut a material not on the pre-approved list, please provide the Material Safety Data Sheet. Staff will review and determine if your material is safe to cut.

Approved Materials for Engraving Only:

- Glass
- Ceramic Tile
- Marble, Granite, Onyx
- Powder Coated Metal
- Mirror (backside only)
- Cermark Spray on Metal

Banned Materials:

- Epoxy Resin
- PVC or PVB (vinyl, artificial leather)
- Polyethylene - HDPE, LDPE, LLPE, MDPE, UHMW
- Polystyrene or Polypropylene Foam (including foamcore posterboard)
- PTFE / Teflon
- Polycarbonate / Lexan
- ABS
- Fiberglass
- Carbon Fiber

EMP ST50J Fiber Laser Reservation Procedure*

*You must have been trained by MPG Staff to be certified to reserve time on the EMP Fiber Laser. Ask staff to schedule equipment training. Members will only be granted Fiber Laser training after demonstrating proficiency and familiarity with Lightburn on our Boss and/or Aeon Lasers.

Minimum reservation time: 30 minutes / Maximum reservation time: 4 hours

Please have your vector or image file ready to import into Lightburn prior to your appointment.

Marking Area: 7.87" x 7.87"

Software: Lightburn Galvo

Wattage: 50W

Pulse width: 2-500ns

Frequency Range: 1-4000kHz

Wavelength: 1064nm

Compatible File Types:

image: .bmp, .jpg, .jpeg, .png, .gif, .tif, .tiff, .tga

vector: .ai, .pdf, .dxf, .hpgl, .plt, .rd, .svg, .lbrn

Approved Materials:

Metals:

- Aluminum
- Gold
- Silver
- Copper
- Stainless Steel
- Brass
- Titanium
- Tungsten

Nonmetals:

- Colored Acrylic
- Hard Plastics
- Brick
- Granite
- Marble
- Tile
- Nylon
- ABS
- Ceramic
- River Rock
- Precious Stones
- Marble
- Artificial Leather
- Cardboard

ShopBot CNC Router Reservation Procedure*

*You must have completed the online VCarve training, created a VCarve file, and cut your first file with the assistance of MPG staff to be certified to reserve time on the ShopBot. [Find all the steps to complete CNC training on our website here.](#)

Please have your VCarve file ready prior to your reservation on the CNC Router in order to keep the ShopBot desktop dedicated to running files.

Check your feed and speeds for the given bit and material with Maker Playground staff before exporting your toolpaths for ShopBot.

Minimum reservation time: 1 hour / Maximum reservation time: 4 hours (Please consult MPG staff if your project requires more time!)

Maximum Job Size: 96x48x8"

Software: VCarve Pro

Compatible File Types:

vector: .dxf, .dwg, .eps, .ai, .pdf, .pvc, v3d, .v3m, .crv, .skp, .svg

image: .bmp, .jpg, .gif, .tif, .tiff, .png, .jpeg

3D model: .stl, .v3m, .3dm, .skp, .rlf, .3ds, .asc, .prj, .x, .dxf, .lwo, .wrl, .obj

Approved Materials:

- Solid wood
- Plywood
- MDF
- Dense foam
- Acrylic
- HDPE
- Polycarbonate
- Aluminum (prior clearance by MPG staff required)
- Brass (prior clearance by MPG staff required)
- Copper (prior clearance by MPG staff required)

Maker Playground will generally have common bits available for your use, but if you are looking for a more specific router bit, you may need to bring in your own. If you are surfacing slabs or river tables, you will need to provide your own surfacing bit.

Bambu Labs 3D Printers Reservation Procedure

To print on either of Maker Playground’s Bambu printers, please have your 3D model file ready on a flash drive or cloud storage accessible from any web browser. You will need to set up your file for printing on Bambu Studio on one of Maker Playground’s laptops. The file is sent over and started at the printer directly from Bambu Studio. Setup is generally quick and simple, and staff are happy to assist. Make sure to reserve adequate time to print your file, and if necessary, schedule a pick up time with staff. [Download Bambu Studio for free here.](#) **Note that files must be opened and started from Bambu Studio on MPG’s laptops.**

Minimum reservation time: 2 hours / Maximum reservation time: 8 hours (Please consult MPG staff if your project requires more time!)

Compatible File Types: .stl, .obj, .3mf, .x3d

Approved materials: PLA, PLA+, PETG
NO TPU, PVA, or ABS

To ensure availability, please bring your own filament. Filament can be found nearby at MicroCenter or online at Matterhackers or Amazon. **Bambu printers require 1.75mm filament.**

Bambu 3D Printers	Build Volume	Filament size	Filament Types	Slicer Software
Bambu P1S-695	256 mm (10.07") x 256 mm (10.07") x 256 mm (10.07")	1.75mm	PLA PLA+ PETG NO TPU	Bambu Studio
Bambu P1S-717	256 mm (10.07") x 256 mm (10.07") x 256 mm (10.07")	1.75mm	PLA PLA+ PETG NO TPU	Bambu Studio

Ultimaker 3D Printers Reservation Procedure

To print on any of Maker Playground's Ultimaker printers, please have your 3D model file ready on a flash drive or cloud storage accessible from any web browser. Your 3D model will need to be set up in Ultimaker Cura, either on a personal laptop or on Maker Playground's laptops. After slicing, Cura provides a print time estimate. The file will need to be saved from Cura onto a flash drive or SD card to be brought to the printer and started. Setup is generally quick and simple, and staff are happy to assist. Make sure to reserve adequate time to print your file, and if necessary, schedule a pick up time with staff. [Download Cura for free here.](#)

Minimum reservation time: 2 hours / Maximum reservation time: 8 hours (Please consult MPG staff if your project requires more time!)

Compatible File Types: .stl, .obj, .3mf, .x3d

Allowed materials: PLA, PLA+, PETG, TPU**

NO PVA, or ABS

To ensure availability, please bring your own filament. Filament can be found nearby at MicroCenter or online at Matterhackers or Amazon. **Ultimaker printers require 2.85mm filament.**

Ultimaker 3D Printers	Build Volume	Filament size	Filament Types	Software
Ultimaker 2+	223mm (8.77") x 220mm (8.66") x 205 mm (8.07")	2.85mm	PLA PLA+ PETG TPU**	Ultimaker Cura
Ultimaker S3	230 mm (9.05") x 190 mm (7.48") x 200 mm (7.87")	2.85mm	PLA PLA+ PETG TPU**	Ultimaker Cura
Ultimaker S5**	330 mm (12.99") x 240 mm (9.44") x 300 mm (11.81")	2.85mm	PLA PLA+ PETG TPU**	Ultimaker Cura

**Consult with Maker Playground Staff