

# Protohaven

# Member Guide

(updated 02/01/23)

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## Culture

### Community Guidelines

#### *1. Be Respectful*

Our students, members, and partners bring with them a rich variety of experiences, perspectives, and aspirations. What brings us together is a shared interest in the process of making things. To create a welcoming, supportive environment, we ask each individual to treat one another with care and openness to diversity of race, gender, orientation, age, identity, and ability.

Actions that bully, degrade, or threaten any individual or group are not welcome in our community.

#### *2. Take Responsibility*

Protohaven is built around shared resources - space, tools, knowledge, and the community itself. To preserve these communal assets, each individual is asked to take responsibility for their own actions and to be mindful of how they impact those around them. We are each accountable for ourselves, and don't expect others to bear the costs of our actions.

#### *3. Help Out*

Protohaven is a public charity and is made possible only by people giving more than they take. In this spirit, we ask each individual to find opportunities to help each other, the organization, and our broader community. We also ask each individual to recognize that assistance is not always sought, to seek consent before providing aid, and to provide opportunity for others' work and discovery.

### Shop Rules

#### *1. Be Safe*

**Get Safety Clearances:** Most tools in the shop require an Equipment Clearance Class or Test before use. Do not use this equipment before obtaining the necessary clearance. These clearances are the bare minimum requirements to use the equipment and are not a substitute for consulting manufacturers' safety guidelines, asking for help, or following general safety principles.

**Wear Protective Equipment:** Closed-toed shoes and safety glasses are required and hearing protection is recommended in the Workshop area of the space. Wear a respirator when sanding or spraying. Use dust collection, fume extractors, and ventilation fans where provided. No gloves, loose clothing, or dangling hair or jewelry around tools that spin. Additional PPE (Personal Protective Equipment) may be required for specific areas and tools.

**Watch and Reset Equipment:** Never leave a piece of machinery operating unattended. If you've changed equipment settings or setup during use, return them to their original states before leaving the tool.

## ***2. Take Care of the Tools and Equipment***

**Get Clearances:** Each tool and piece of equipment is different and most are expensive and/or delicate. Safety Clearances and Classes provide machine-specific care details so you can effectively use a tool or piece of equipment without damaging it.

**Do Not Alter or Use Beyond Limits:** Tools at the shop are set up to serve a large number of people and projects. Do not permanently alter them for a particular use. If you temporarily change settings or setup, return them to their original state before leaving the tool. Only use tools within their specified parameters.

**Notify When Maintenance Is Needed:** We can only fix what we know about. Please use the status tag at each machine and online reporting system to indicate when repair is needed.

## ***3. Keep the Shop Clean***

**Clean Up After Yourself:** Making things creates garbage and debris. You are responsible to clean it up. Your work area should look better when you leave than when you started.

**Return Tools to Their Original Locations:** Large equipment should not be moved for use. Smaller tools or carts should be returned to their original location when you are finished.

**Pay for Overnight or Monthly Storage:** Unless you have paid overnight or monthly storage (of which there are many options), everything you bring in with you must leave when you leave for the day. If you pay for storage, you may only store items in the area designated for you. Anything left outside of your paid storage may be removed and disposed of. Storage can be purchased through the Shop Tech on duty.

## **Covid Protocols**

### ***Before Coming***

Before coming to Protohaven, we ask everyone to verify that you:

1. Pass a self-screen for common Covid symptoms, meaning:
  - No fever
  - No cough or shortness of breath
  - No change in sense of taste or smell, and
2. Have not had close contact with someone who has tested positive for Covid in the last 10 days
3. Use the online calendar to schedule a time to visit the shop, so we have a record of all visitors

If someone has had symptoms or contact, we ask that they not return to the shop until they either receive a negative Covid test result, or wait 10 days after their last symptoms or contact.

### ***While Here***

While using the shop, we ask everyone to:

- Wear a cloth facemask if you are not vaccinated
- Maintain 6 feet social distance from others,
- Regularly wash their hands
- Carry a supplied cleaning kit and wipe down commonly-touched surfaces before and after use

### ***After Leaving***

If, after leaving the shop, a visitor develops common Covid symptoms, we ask that they get tested for Covid-19 and share the results with us. This allows us to take the appropriate cleaning, testing, and notification measures if the test comes back positive.

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## **Programs**

### **Classes**

Classes are the entry point to our community. They focus on teaching design, fabrication, and related skills. They dive into everything from basic skills and safety to immersive projects that teach students how to operate equipment with confidence to advanced maintenance and troubleshooting intensives that earn members clearance to join our maintenance crew. They range from introductory public talks and workshops to in-depth multi-week courses. Not all classes provide clearances. Be sure to read course descriptions carefully.

Beginning Fall 2021, they will be primarily organized by a trimester Spring/Summer/Fall calendar. Class development and support are led by the Education Coordinator and Executive Director and taught by either staff, Teaching Fellows, or contract instructors.

#### Getting Cleared on Tools

Most tools in the shop require clearance before independent use as a member. Each tool is different and most are expensive and/or delicate. You can find our full list of equipment and the clearance associated with each tool at [protohaven.org/equipment](https://protohaven.org/equipment).

Each new member receives a free clearance (or \$45 off a 101 Class) when they join and complete the [New Member Orientation](#).

**There are two pathways to get cleared to use equipment as a member:**

1. [Take a Class](#) — Learn through making things together!

We think the best way to gain clearance on a piece of equipment that is new to you is through a hands-on, supportive class that may include a clearance. They're also a great way to advance

skills that you may already have. Our classes are open to the public.

- a. Open to the public, no experience required (unless otherwise stated).
- b. 3-6 students maximum, depending on the class.
- c. Minimum of two participants. Classes may be canceled due to low enrollment.

2. **Schedule a Clearance** — Study [shop protocols](#) & show us your skills!

If you have previous experience on a tool our Clearances are designed for you. These are exclusive to members and are scheduled by request. You'll need to demonstrate to your instructor that you can use the equipment safely, carefully, and cleanly to receive clearance. Clearances are pass/fail. YOU WILL NOT RECEIVE ANY INSTRUCTION DURING THIS SESSION.

- a. Open to active members, scheduled with minimum 72hr lead time
- b. 2 students maximum
- c. 1 student minimum

### **Intensive Courses**

We're incredibly excited to offer intensive, multi-session courses! This is the most in-depth, supportive pathway for anyone to grow confidence working independently, deepen their skills, and gain clearance on equipment.

Our intensive courses are the only class offering that include membership, homework, a private #class-channel on [our discord server](#), and peer group meetups between sessions. Existing members receive a special discount on all our multi-session courses! It is important to note that existing members who enroll in an intensive do not receive free, discounted, transferred, refunded, or prorated membership during this time.

### **Membership**

Membership is a long-term educational and support program for design and fabrication enthusiasts and professionals. Protohaven members receive discounts on public courses, gain independent access to the 12,500ft<sup>2</sup> Wilkinsburg campus for self-guided projects, participate in member-only learning circles, and receive individual guidance based on their specific goals.

The space includes professional-quality tools and equipment in 15 different disciplines ranging from graphic design and laser cutting to woodworking and welding.

Each new member also receives a free Basic Clearance (or \$45 off a class) when they join for the first time and complete the New Member Orientation.

### **Age Requirements**

Minors using the shop outside of scheduled classes must be members and accompanied by a parent or guardian who is also a member.

**Workshop access** is limited only to those 16+ years of age.



**Studio access** is limited only to those of 12+ years of age.

### Affordability

At Protohaven we are dedicated to being an accessible and equitable makerspace. Low income rates are available for those who require financial assistance to become members through our Access to Making Program (AMP). [You can apply for an income based rate on our website.](#)

### Membership Types (Note: Rates will be changing as of 4/1/23)

	Weekend	General	Pro (currently unavailable)
Pricing	\$65 <sup>.00/mo</sup>	\$115 <sup>.00/mo</sup>	\$265 <sup>.00/mo</sup>
Access to Workshop and Studio			
First Clearance Free (or \$45 toward a class)			
Weekend hours Sa/Su: 10am - 10pm			
Weekday hours M-Th: 10am - 10pm Fri: 10am - 10pm			
24/7 Access			

### **General**

Access during all of our public hours, Monday – Thursday 10am – 10pm and Friday – Sunday 10am – 10pm. Our most popular option for enthusiasts who want to be able to use the shop anytime during our public hours. [Sign-up for a General Membership.](#)

### **Weekend**

Access every Saturday and Sunday 10am – 10pm. An affordable option for those just getting into making, or who need only occasional access and can come in on the weekends. [Sign-up for a Weekend Membership.](#)

### **Pro\***

24/7 access. Pittsburgh's only co-working space that includes a full design studio and fabrication workshop. For professionals or dedicated makers who want to start early and stay late. Requires additional training, and buddy-system for off-hour use of Workshop.

### Materials & Consumables

It is the responsibility of the maker to provide their own materials and consumables in the workshop this includes the materials you are using to construct your work, but also certain consumables that are

required for equipment to function (ie. sandpaper, welding nozzles, flux, contact paper, etc.) Our store has some of these items in stock, but we cannot guarantee that everything you need will be in stock at all times. Please come prepared. Anyone wanting to purchase consumables, must see the Shop Tech on duty.

### [How to Switch or Cancel Membership](#)

You can cancel your membership at any time by navigating to [My Account > My Subscription > Cancel](#).

To switch or resume your membership follow the same steps and cancel your existing membership followed by purchasing your desired membership from the [Membership page](#).

The screenshot shows the Protohaven website interface. At the top, the logo 'Protohaven' is on the left, and 'My Account' is circled in red on the right. Below the logo are navigation links: Membership, Classes & Events, Projects, and About. The top right corner shows '\$0.00 0 items' with a shopping cart icon. The breadcrumb trail reads 'Home > My account > Subscription #67517'. The main heading is 'Subscription #67517'. Below this is a table with subscription details:

Status	Active
Start date	March 3, 2021
Last order date	March 3, 2021
Next payment date	In 3 days
Payment	Via Visa card ending in [REDACTED]
Actions	<a href="#">Cancel</a> <a href="#">Change payment</a>

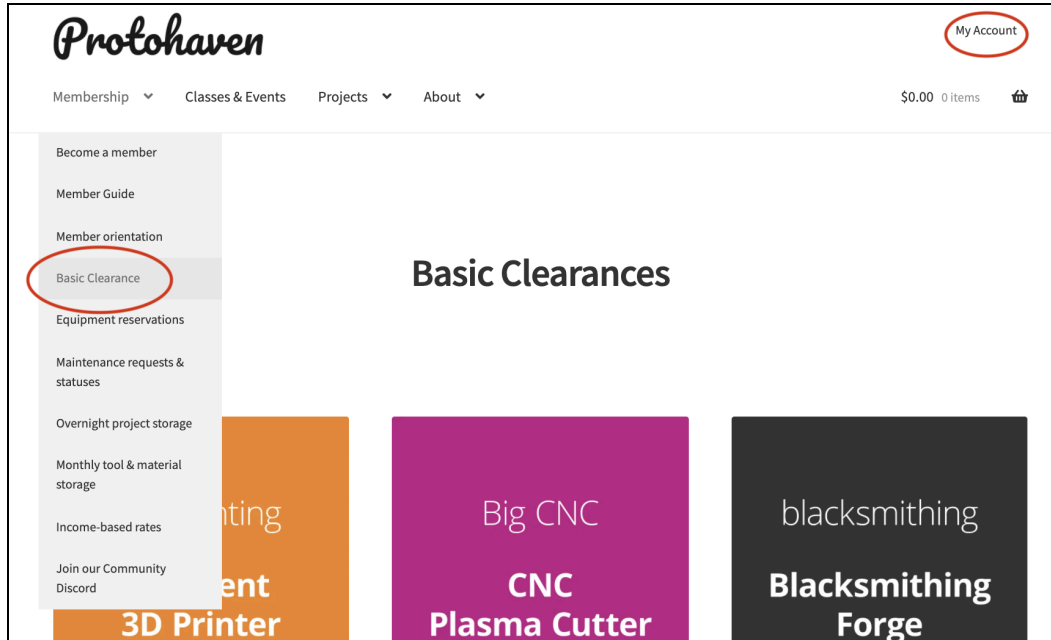
To the right of the table is a sidebar with links: Dashboard, Orders, Memberships, My Subscription (circled in red), Downloads, Bookings, and Coupons.

### [Scheduling a Clearance](#)

Clearances are required before members can operate equipment independently at Protohaven. Learn more at ["Getting Cleared on Tools"](#) under the ["Classes"](#) section of this guide.

As a member, you can schedule a Basic Clearance for equipment where you hold previous experience. Sign into your Protohaven account and go to our [Basic Clearances](#) page to schedule.

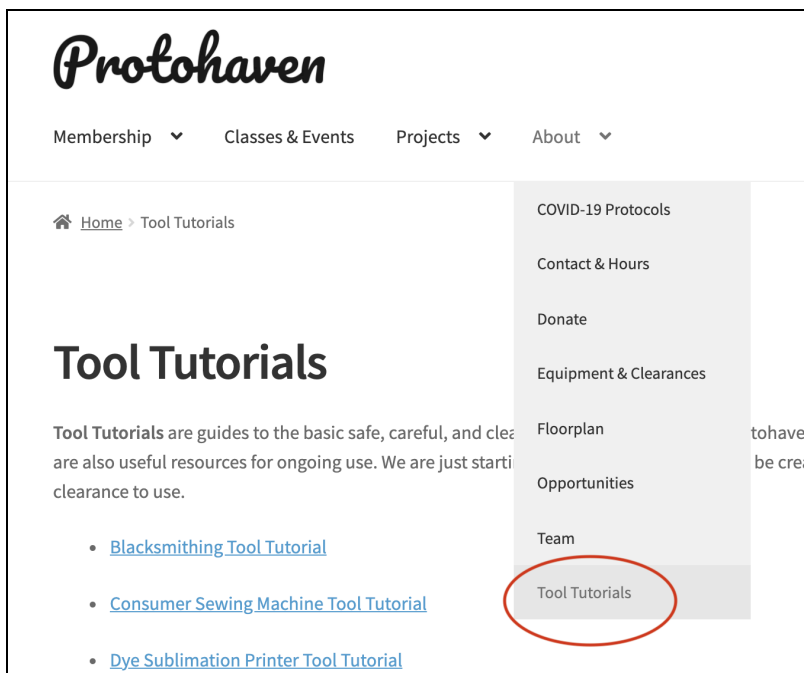
As an important next step, you'll need to study the public, shop-specific protocols by visiting the [Tool Tutorial](#) before your clearance.



### Tool Tutorials

[Tool Tutorials](#) are public guides to the basic safe, careful, and clean use of the equipment at Protohaven. They're the basis for receiving clearance on equipment, and are also useful resources for ongoing use.

We've just started their development, but will be creating them for each piece of equipment in the shop that requires clearance to use.



The **table of contents** on the left hand menu allows you to quickly jump to the section you need.

Blacksmithing Forge Tool Tutorial

File Edit View Insert Format Tools Add-ons Help

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Usage Highlights

Personal Protective Equipment

**Tool Anatomy**

SHOP LAYOUT

PROPANE TANK

FORGE

ANVIL

Tool Safety

COMMON HAZARDS

PROHIBITED MATERIALS

Initial Setup

SETUP CHECKLIST

Basic Operation

OPERATION CHECKLIST

IGNITING THE FORGE

HEATING MATERIAL

QUENCHING MATERIAL

Cleanup

CLEANUP CHECKLIST

MAINTENANCE REQUESTS

Troubleshooting

Special Setups

Tool Anatomy

SHOP LAYOUT

The photograph shows the interior of a blacksmith shop. On the left are large red metal doors. In the center-right area, there's a workbench with various tools. Numbered callouts point to specific items: 1 points to a propane tank, 2 points to a forge on the workbench, 3 points to an anvil on a wooden stand, 4 points to a maintenance tag hanging from the workbench, and 5 points to a large metal tub used for quenching.

1. Propane Tank - Fuels the 2-burner forge

2. Forge - 3" x 12" x 6" firebox, retains 2350° heat

3. Anvils - Primary work surface used to forge and form different shapes

4. Maintenance Tag - Manually tracks the usability status with Green/Yellow/Red cards

5. Quench Tub - Used for cooling heated material

The **Initial Setup**, **Basic Operation**, and **Cleanup Checklists** are what instructors use to ensure that you can use the equipment according to community expectations.

Blacksmithing Forge Tool Tutorial

File Edit View Insert Format Tools Add-ons Help

100% Heading 2 Quicksand 24 B I U A

1 2 3 4 5 6 7

←

SHOP LAYOUT

PROPANE TANK

FORGE

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Initial Setup

SETUP CHECKLIST

Basic Operation

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Cleanup

CLEANUP CHECKLIST

MAINTENANCE REQUESTS

Troubleshooting

Special Setups

Additional Resources

## Initial Setup

### SETUP CHECKLIST

1. **Check** that work area is clear and free of tripping hazards
2. **Check** that clothes, shoes, and PPE is safe to use
3. **Line up** tools needed
4. **Turn on** vent fan
5. **Open** the garage door

## Basic Operation

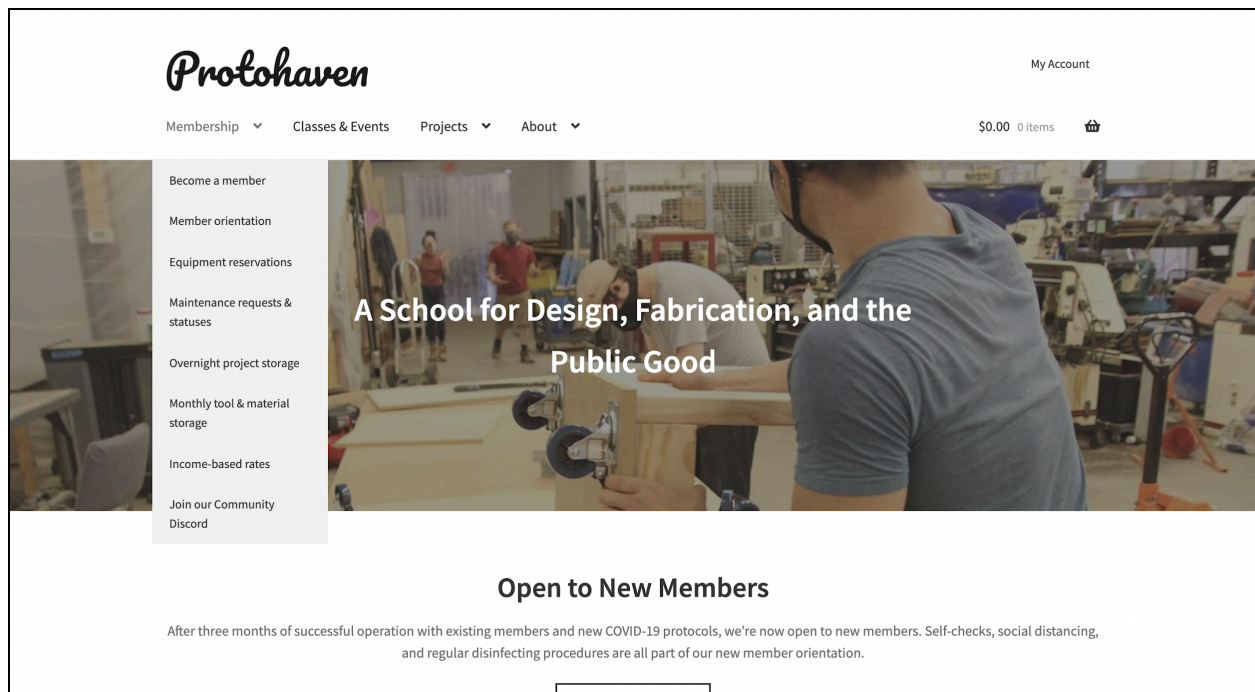
### OPERATION CHECKLIST

1. **Open** gas flow from tank
2. **Check** that flow is in range of 10 PSI
3. **Listen and smell** for potential leaks
4. **Open** shut-off valve to forge and **immediately press** ignition button

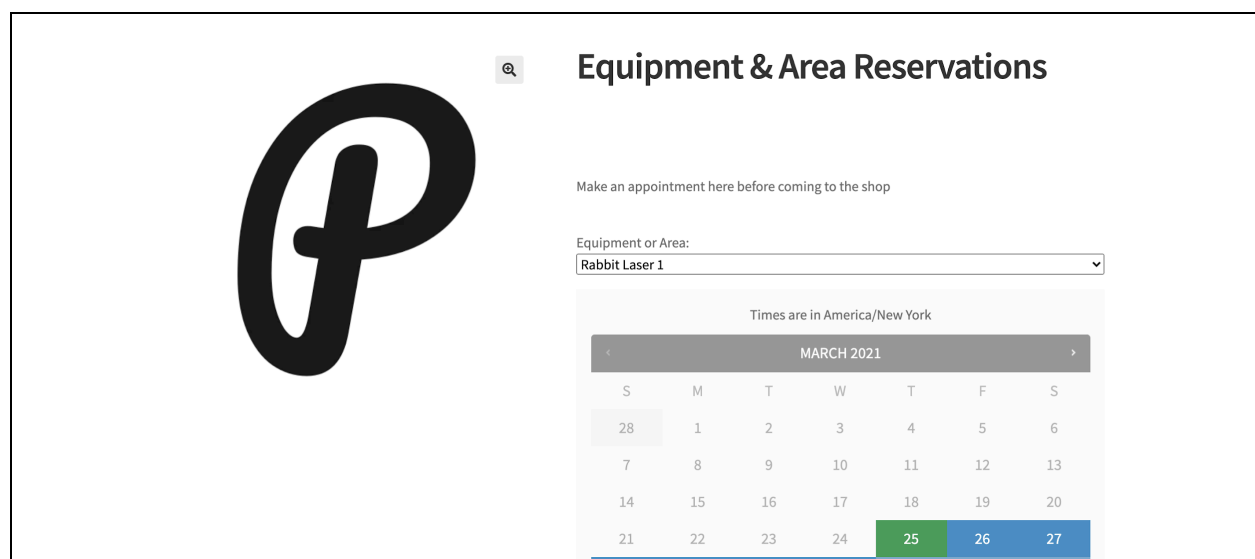
## Reserving Equipment

Members are required to reserve time slots for equipment and areas online using their Protohaven account. Reservations are for one and two hour blocks and can be reserved multiple times. You must be cleared in an area or piece of equipment in order to reserve it. Most areas can support 2 members simultaneously working, however others (like welding and the CNCs) can only support 1 user at a time. Anyone caught using equipment that they do not have the appropriate clearances for risks having their membership revoked.

- 1.) From the home page navigate to the membership tab and click “Equipment reservations”.



- 2.) Once on the reservation page choose a piece of equipment from the dropdown and use the calendar to select your desired date. Once selected a drop down menu with available times will appear. Select your desired time range and add to your cart. Repeat this step to add more reservations (Times will not be reserved until you proceed to checkout)





Rabbit Laser 1

Times are in America/New York

MARCH 2021

S	M	T	W	T	F	S
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Starts: 12:00 pm

Ends: 1:00 pm (1 Hour), 2:00 pm (2 Hours)

Book now

Edit

Description >

- 3.) Once you have added all of your reservations proceed to checkout by clicking the shopping basket at the top right of the page. Reservations are free products and must be checked out before the reservation can be booked.

Protohaven

Membership ▾ Classes & Events Projects ▾ About ▾

My Account

\$0.00 0 items

Home > Classes & Events

## Classes & Events

1 2 ▸

- 4.) Once you complete checkout you will receive an email confirming your booking. You can always review and cancel any current and past bookings from the “My Account” page and navigate to “Bookings” NOTE: Bookings may only be cancelled the day BEFORE your reservation. Day of cancellations must be submitted by email to [hello@protohaven.org](mailto:hello@protohaven.org). Please include your order number in your cancellation request.

[Membership](#)
[Classes & Events](#)
[Projects](#)
[About](#)

[My Account](#)

[Home](#) > [My account](#)

\$0.00

0 items

## Bookings

### Upcoming Bookings

ID	Booked	Order	Start Date	End Date	Status
67576	<a href="#">Custom</a> <a href="#">Clearance</a>	<a href="#">67575</a>	March 31, 2021, 6:00 pm	March 31, 2021, 8:00 pm	Complete

### Past Bookings

ID	Booked	Order	Start Date	End Date	Status
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[Dashboard](#)
[Orders](#)
[Memberships](#)
[My Subscription](#)
[Downloads](#)
[Bookings](#)

## Maintenance

Maintenance actions can only be made by the authorized maintenance crew. All members are expected to report maintenance when it's required. A subset of members then perform maintenance. Anyone can see the present state of equipment by [checking its status](#). Maintenance is prioritized based on high equipment usage.

### Requests

Maintenance requests inform staff and techs of issues with equipment ranging from simple replacement parts to potential safety issues. Members are encouraged to use this system so that the Protohaven team can respond quickly to shop needs, reducing equipment downtime and keeping you working effectively longer. Maintenance Requests can be found here: <https://www.protohaven.org/tools/>

### Actions

Maintenance actions can only be made by authorized maintenance crew which includes staff, techs, instructors, fellows, and authorized members. Members can view and follow maintenance actions in real time by joining the [Protohaven Discord Server](#)

### Equipment Status

You can also view the current status of all equipment and areas by reviewing our Master Equipment List. This list cataloges all equipment and reports its most recent condition and last action taken on it. [View it here.](#)

## [Storage](#)

Protohaven provides both overnight and monthly storage options to ensure you can continue working on your projects without the hassle of transporting your work to and from home. You must see the Shop Tech on duty in order to purchase storage.

### [Overnight storage](#)

- **Project Carts** - Movable carts with bottom shelf, ideal for storing smaller projects and tools. *All belongings must remain inside the perimeter of the cart.*
- **Hub Tables** - Movable, large tables, ideal for medium to large glue-ups, drying, or curing. *All belongings must remain inside the perimeter of the table.*
- **Pallet space** - Workshop floor space, ideal for storing large builds or pieces of personal equipment. *Belongings must be on movable pallets or carts with wheels.*

### [Monthly storage](#)

- **Locker** - Small lockers for storing tools, small projects, and personal belongings. Can be locked (lock not included).
- **Board & Bar** - Great for longer lengths of wood or metal
- **Cage** - Perfect for those using the shop regularly. Plenty of room for projects, material and personal tools. Can be locked (lock not included).
- **Sheet** - Ideal for plywood, sheet metal, large acrylic, etc
- **Rack** - Shelving offering plenty of horizontal space for flexible storage. *All belongings must remain inside the area of the shelf.*
- **Pallet space** - Workshop floor space, ideal for storing large builds or pieces of personal equipment. *Belongings must be on movable pallets or carts with wheels.*

## [Receiving Mail and Freight](#)

As a member you can have your mail and supply orders sent directly to Protohaven at no additional cost. Additionally, our loading docks can support freight pick-ups and drop-offs within regular shop hours. We just ask that you are available on your freight delivery day to properly store your shipment before the shop closes that day. Please be sure to check for mail regularly, as mail that has not been picked up for over one month may be returned to the sender. If there are any extenuating circumstances that will prevent you from picking up your mail in a timely manner, please let us know.

## [Guest Policy](#)

### **Who**

Protohaven members are welcome to bring guests during member hours. Members are responsible for ensuring that their guests abide by all shop, community and COVID-19 guidelines during their visit. They will also need to complete the following upon entering the building.

### **When**

Guests are welcome during all member access hours. See the [shop hours](#) section for details.

### **How**

Guests are NOT cleared Protohaven members and should not be assisting or independently operating equipment in any way. Guests may consult, view work in progress and socialize with their host. Guests must join as members, complete orientation, and receive clearances BEFORE working or assisting in the shop (this includes the use of tools provided by the member). **Any member who has a guest that is using tools and equipment at Protohaven without first becoming a member and receiving the proper clearances, will risk having their membership revoked.**



## Emergency Policy

### ***Fire***

In the event of a small fire, extinguishers are present throughout the building:

- Kitchen/Hub
- Wood Shop
- Maintenance Room
- Blacksmithing
- Front Entrance

If you use a fire extinguisher for any reason, notify the appropriate Protohaven staff member or on duty tech.

In the event of a true fire emergency OR if the fire suppression system is triggered, evacuate the building immediately and THEN call 911 ONLY after you have safely removed yourself from danger. After emergency services have been contacted notify the appropriate Protohaven staff member or and fill out an incident report.

### ***Medical/Injury***

For minor injuries there are first aid kits in the kitchen located next to the shop doors, in the forge, and in the woodshop area next to the door leading to the studio. Please report any low supplies to a staff member. There are also two AED machines, with one being located in the kitchen, and the other being located in the woodshop next to the first aid kit.

In the event of a medical emergency time is of the essence. If you can safely and knowledgeably do so, **seek consent** to stabilize the injured person(s) and CLEARLY IDENTIFY an individual to call 911. If you are unable to stabilize, safely attempt to locate someone who can after calling 911. After the immediate threat has passed and emergency services have been contacted notify the appropriate Protohaven staff member for further instruction.

In the event of an injury, an incident report will need to be filed with the Shop Tech on duty.

### ***Mental Health/Crisis De Escalation***

In the event of a mental health crisis it is important that those affected feel safe and that they have resources at their disposal. Our neighbors at Resolve Crisis Services (333 N. Braddock Ave.) have around the clock support for those in need and we encourage you to direct those in crisis to those resources.

Resolve 24/7 Hotline: 1-888-7-YOU-CAN (796-8226)

Walk-ins welcome without appointment

## Discord

Protohaven Members enjoy access to our Discord server to connect, share, and learn alongside fellow members. It is designed to be a peer-to-peer resource for all members.

As part of our community, here are some of the channels you have access to:

- #general to connect and generally chit-chat with one another
- #free to share materials that are looking for a good home

- #buy-and-sell to, well, buy and sell
- #help-wanted to seek out advice or coordinate project help from other members
- #show-and-tell to see and share all the cool things you're working on both inside and outside the shop!

To join, please use the link below and sign-up with your Protohaven Email:

<https://www.protohaven.org/discord/>

The screenshot shows a Discord interface for the Protohaven server. The left sidebar lists various channels under categories like 'COMMUNITY INFO & NEWS', 'MEMBER CHANNELS', 'VOICE CHANNELS', 'COURSES AND CLASSES', 'PROJECTS', and 'INTERNAL COMMUNICATION'. The main chat area is for the '# show-and-tell' channel. It features a post from user BrianRooker showing three laser-cut wooden pieces. Below this, a message from Jessica describes a resin-coated laser-cut acrylic piece. The right sidebar shows a list of online and offline members. At the bottom, there is a text input field for sending a message to the channel.

**Channel:** # show-and-tell

**Messages:**

- BrianRooker** 03/13/2021: Those are super awesome!!
- Jessica** 03/13/2021: Just resin coated a bunch of laser cut acrylic and thought I'd post one of the already finished ones! 24" diameter and so shiny

**Members:**

- ONLINE — 3**
  - Cord
  - rem
  - Devin
- OFFLINE — 45**
  - .Bill K
  - Adam Nelson
  - Angela Stub
  - becca
  - BrianRooker
  - Camila
  - CarBaja
  - Carlee S
  - Caroline Bal
  - Chris M
  - Dan Thomp
  - dclamage
  - Deb
  - Dustin M.

**Bottom Bar:** + | Message #show-and-tell

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## Opportunities

### Shop Tech

Our Shop Techs represent our primary maintenance and member support corps. This team is responsible for fulfilling maintenance requests, assisting and greeting members, and opening and closing the shop.

#### [How to Apply](#)

More information can be found at <https://www.protohaven.org/opportunities/>.

### Teaching Fellowship

Over the course of this 6 month program, Teaching Fellows collaboratively develop core Protohaven Classes. As a team, they play a key role in creating a rich, supportive learning environment that brings value to students of all skill levels.

#### [How to Apply](#)

More information can be found at: <https://www.protohaven.org/opportunities/>.

### Instructor Open Calls

Instructors are contracted to use their design and fabrication experience to inspire, mentor, and problem solve alongside students who are discovering their skills and gaining a deeper understanding of shop equipment.

#### [How to Apply](#)

Open calls will be posted as needed here: <https://www.protohaven.org/opportunities/>

## Shop Information

### Address and Hours

#### [Protohaven Address](#)

214 N. Trenton Ave  
Wilkinsburg, PA  
15221

**Note:** 214 S. Trenton is on the other side of Penn Ave and is a residential address and is sometimes where packages are delivered by accident. **Please note on your shipment that deliveries should be sent to a commercial/warehouse address.**

### Shop Hours

For the safety and security of our community and members Protohaven Member Hours are only open to students (during scheduled class times), members and guests of members. Office hours are open to the public for tours while staff are available.

### **Office Hours**

Monday - Friday: 10:00am - 4:00pm

Saturday/Sunday: CLOSED TO PUBLIC

### **Member Hours**

Monday - Thursday: 10am - 10pm

Friday - Sunday: 10am - 10pm

### **Scheduled Tours**

7 Days/Week

Saturday-Thursday 1pm and 6pm

Friday 1pm and 6:30pm

### **New Member Orientation**

Hosted virtually on Tuesdays at 6pm

### **Holidays (Shop Closed)**

New Year's Eve

New Year's Day

Martin Luther King Day

Easter

Memorial Day

Juneteenth

Independence Day

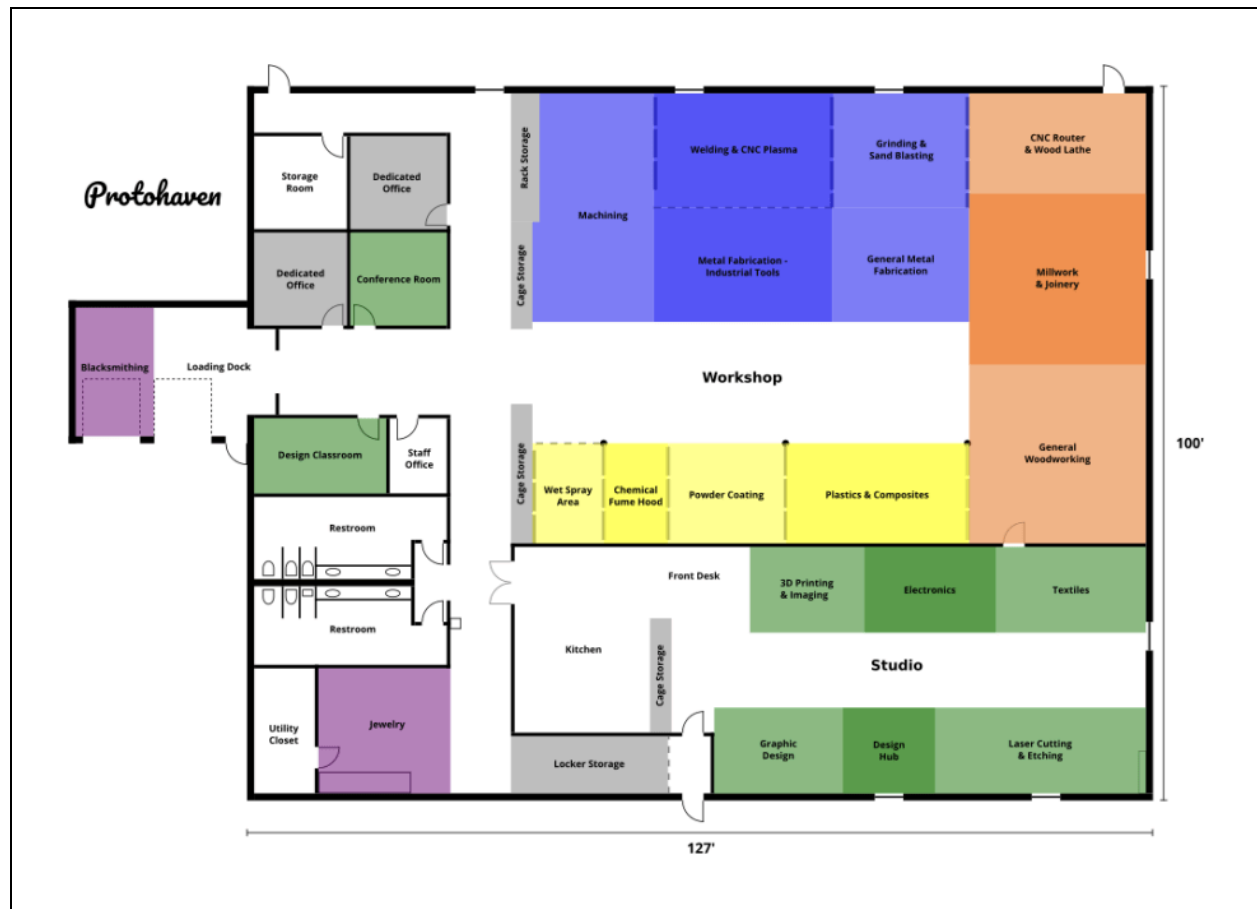
Labor Day

Thanksgiving/National Day of Mourning

Christmas Eve

Christmas

## Floorplan



## Equipment List

[See full equipment statuses here](#)

Shop Area	Tool Name	Make and Model
3D Studio	Prusa 3D Printer	Prusa i3 MK2 3D Filament Printer
3D Studio	Resin 3D Printer	Monoprice Mini Deluxe Resin 3D Printer
3D Studio	3D Scanner	EinScan SE
Big CNC	CNC Plasma Cutter	CNC Router Parts PRO CNC Plasma Kit
Big CNC	CNC Router	CNC Router Parts PRO60120
Big CNC	Industrial Laser Cutter	Kern 4' x 8' 150W CO2

Blacksmithing	Forge	NC Tools Whisper Momma Open-end Gas Forge
CAD Hub	Computer Workstation	HP Z220
Electronics	Bench Power Supply	GW Instek adjustable, 32V, 5A
Electronics	Function Generator	Rigol 2 channel
Electronics	Oscilloscope	Rigol digital 100MHz
Electronics	Reflow Oven	7" x 9" infrared
Electronics	Soldering Stations	2 Weller temperature controlled
Electronics	PCB Mill	Othermill
Finishing	Powder Coating Booth	SpectraCoat ES-01
Finishing	Powder Coating Oven	Powder-X
Finishing	Sandblaster	SkatblastUSA 1536 Champion Abrasive Blasting Cabinet
Finishing	Spray Booth	Spray Booth
Graphics	CNC Embroidery Machine	Brother PR650e Entrepreneur
Graphics	Cap Press	Hotronix Maxx Cap Press
Graphics	Heat Press	Hotronix Swinger Heat Press
Graphics	Large Format Printer	Canon imagePROGRAF iPF650
Graphics	Vinyl Cutter	US Cutter Laserpoint II
Graphics	Dye Sublimation Printer	Sawgrass SG1000
Jewelry & Metalsmithing	Pickle	
Jewelry & Metalsmithing	Polishing Machine	
Jewelry & Metalsmithing	Rotary Tool	Eurotool Flexshaft
Jewelry & Metalsmithing	Soldering Torch	Natural Gas/ Oxygen
Jewelry & Metalsmithing	Tumbler	
Jewelry &	Ultrasonic	

Metalsmithing		
Lasers	Laser 1	Rabbit Lasers QX-80-1290
Lasers	Laser 2	Rabbit Lasers QX-80-1290
Lasers	Laser 3	Trotec Speedy 300 C80
Machine Shop	Clausing Mill	Clausing Kondia CNC Knee Mill
Machine Shop	Manual Metal Lathe	Jet GH-1440W-3, Geared Head Lathe
Machine Shop	Manual Mill	Jet JTM-4VS Turret Mill
Machine Shop	Surface Grinder	Abrasive Machine Tool Co 3B
Machine Shop	Tormach	Tormach PCNC 770
Meeting Rooms	None	None
Meeting Rooms	None	None
Meeting Rooms	None	None
Metal Shop	Aluminium Bench Grinder	Jet JBG-10A
Metal Shop	Arbor Press	Jet AP3-M
Metal Shop	Disc Grinder	Laguna 20" Disc Grinder Sander
Metal Shop	Metal Drill Press	Craftsman Drill Press 137.229200
Metal Shop	Shop Press	Central Machinery 20-Ton Shop Press
Metal Shop	Steel Bench Grinder	Jet JBG-10A
Metal Shop	Vertical Metal Bandsaw	Jet VBS-1610
Metal Shop	Electric Slip Roll	ESR 1300x1.5
Metal Shop	Hand Brake	Jet BP-1646H
Metal Shop	Hand Notcher	Jet HN 16-T
Metal Shop	Metal Shrinker/Stretcher	Central Machinery 68897
Metal Shop	Shear	Birmingham/CP Tools H-5214
Metal Shop	Turret Punch	Tin Knocker Hand Turret Punch TK-12
Metal Shop	Cold Saw	Jet J-FK350-2K
Metal Shop	Horizontal Bandsaw	Jet J-7040M, 10" x 16"

		Horizontal Mitering Bandsaw
Metal Shop	Ironworker	Edwards 55 ton hydraulic ironworker
Metal Shop	Air Compressor	Eaton/Polar Air Rotary Screw Compressor PRS0070003
Plastics	Injection Molder	Morgan Press G-100T
Plastics	Strip Heater	Formec FLB500
Plastics	Vacuum Former	Formech 686
Textiles	Consumer Sewing Machine	Janome DC3050
Textiles	Industrial Straight Stitch	Juki DDL 8700
Textiles	Industrial Walking Foot	Juki DNU-1541S
Textiles	Industrial Serger	Juki MO-6714S
Welding	Manual Plasma Cutter	Lincoln Electric Tomahawk 625
Welding	MIG Welder	Lincoln Electric Power MIG 256
Welding	Oxy-Acetylene Torch	Underwriters Laboratory Welding Torch 8F41
Welding	TIG Welder	Lincoln Electric Precision TIG 225
Wood Shop	Belt and Disc Sander	Jet JSG-6DC
Wood Shop	Downdraft Table	Grizzly H2936 Vacuum Sanding Table
Wood Shop	Miter Saw	Jet 12" Sliding Dual Bevel Compound Miter Saw
Wood Shop	Table Saw 1	SawStop ICS53230 5HP
Wood Shop	Table Saw 2	SawStop PCS31230 3HP
Wood Shop	Woodshop Drill Press	Jet Step Pulley Drill Press JDP-20MF
Wood Shop	Woodworking Bandsaw	JET 18" Woodworking Bandsaw JWBS-18QT-3
Wood Shop	Drum Sander	Jet 16-32 Plus
Wood Shop	Jointer	Laguna MJOIN 8020-0130
Wood Shop	Planer	Laguna 16" 4-Post Planer MPLAN1510-0120



Wood Shop	Resaw Bandsaw	Laguna LT14BX
Wood Shop	Main Dust Collector	Grizzly G0601 Cyclone Dust Collector
Wood Shop	Wood Lathe	Powermatic 4224B