



# Education Program



## 2024 Class Catalogue



*Providing the pathway for members to improve their woodworking knowledge, skills and abilities through their experience with the Guild.*

This catalogue has information on our safety classes, our routine and repeating (R&R) woodworking classes and our woodworking series classes. By R&R, we mean that these classes will generally be offered more than once annually. Other woodworking classes will be offered on an individual basis that are not included in this catalogue.

The classes are divided into two major categories: **Safety** and **Woodworking**. All class categories include various techniques and skills involved in woodworking. Let the Class Manager know if you are interested in teaching or have other ideas about what topics we should add to this list.

**Member Woodworking Experience:** Classes are developed with consideration of the varying levels of experience that members have as they participate. These are based on the following:

BEGINNING WOODWORKER: A beginning woodworker has little, or no experience with woodworking concepts and safety protocols. They are not familiar with the characteristics of the materials and lack instruction on using and naming PPE (Personal Protective Equipment), hand tools, power tools, and machinery.

BASIC WOODWORKER: Woodworkers at this level have some initial experience in the use of some woodworking machines. Basic woodworking concepts, safety protocols, producing shop drawings, choosing the appropriate materials, and developing a process may still be new. Mentoring and Instruction are needed for many projects.

INTERMEDIATE WOODWORKER: An intermediate woodworker can safely operate most of the following tools: basic hand tools, plainer, jointer, bandsaw, table saw, miter/circular saw, and belt sander. They understand and practice safety protocols necessary for working in a shared shop environment. They are able to make many of the independent decisions necessary to complete woodworking projects of moderate complexity. Intermediate woodworkers are familiar with the woodworking process, basic milling, tool maintenance, joinery techniques, working around others, and related safety protocols.

ADVANCED WOODWORKER: Woodworkers at this level are professionals or non-professionals who have spent years engaged in the craft. They have acquired workplace experience with tools and safety protocols and possibly supervised others. These woodworkers have demonstrated the confidence, knowledge, skill and expertise to plan and complete varied and complex woodworking processes, in a wide selection of materials with competence on every tool with the appropriate safety protocols.

## SAFETY CLASSES

- Intro to the Guild
- Getting Started
- Core Tool Certification
- FastTrack Core Tool Certification
- Router/Router Table Certification
- Sliding Table Saw Certification
- Multi-Router Certification
- Panto-Router Certification
- Wide Belt Sander Certification

*[Note: CNC Certification is included in the Intro to CNC class]*

## WOODWORKING CLASSES

**Foundational Series:** There are two class series options that provide members with a solid foundation upon which to further develop their skill level.

**The Basics of Fine Woodworking Series:** This series is delivered in 7 weekly sessions and focuses on the basics of fine woodworking. At the end, the students also have a completed project.

**Intro to Woodworking and Furniture Design:** This series is delivered in six sessions and takes students through the process of designing and building a piece of furniture. The series is taught by professional woodworker and Guild member Helen Helfand.



**Routine and Repeating (R&R) Woodworking Classes:** The R&R classes are generally single day classes that focus on a particular aspect of woodworking or on completing a specific project. The current list of classes is:

- The Basics of Milling
- Getting Started II
- Build a Crosscut Sled
- Intro to Hammer Veneering
- Make a Box with an Inlay
- Build a Stake Leg Stool
- Box Class
- Introduction to CNC
- Beginner Woodworking Machinery Maintenance Training
- Scroll Saw Basics

- Intro to Hand Tools
- Bandsaw Clinic
- Sharpening Chisels and Hand Planes
- Sharpening Scrapers
- Hand Plane Skills
- Leatherworking for Woodworkers
- Basics of Connecting Wood with Metal
- Coasting Into Kumiko
- Intro to Hand Cut Dovetails
- Hand Cut Dovetail Drawer Box
- Making a Simple Pencil Box

### Carving Classes

Ongoing classes as available.



### SAFETY AND WOODWORKING R&R CLASS SCHEDULING

These classes repeat during the year. As part of our annual planning, we will announce these classes in advance with enough time for you to plan your participation accordingly. By the middle of the year, we hope to announce most of these classes on a quarterly basis at least 30 days prior to the quarter.

# CLASS DESCRIPTIONS

## SAFETY CLASSES

### INTRO TO THE GUILD

3-hour class

**Prerequisite: Guild Membership**

This is an entry-level class required of all members who wish to utilize the Guild Shop bench room or machine room. It provides an overview of the Guild and available programs. It is also the introduction to Guild safety requirements and includes a tour of the existing shop and included equipment. This class is additionally used to determine which new members might

benefit from the Getting Started class.



### GETTING STARTED – HANDS ON WITH PORTABLE POWER TOOLS

4-hour class

**Prerequisite: Intro to Guild Safety**

The Getting Started class is a continuation of the safety process in good woodworking practices taught in the Intro to the Guild class. Getting Started is a required class for beginners needing experience with the safe and appropriate use of portable power tools, prior to starting the path to the Guild's Shop Certification classes. This is a four-hour class, with 2-1/2 hours of

practice with a jigsaw, trim router, random orbital sander, drill motors (battery and corded), and circular saw and installing their accessories.



### CORE TOOL CERTIFICATION

8-hour class

**Prerequisites: Intro to Guild Safety & Getting Started (as applicable)**

This class is designed for the member to become certified on the "Core Tools" and is required to work in the Guild machine room or to take classes using the "core" power tools. The class consists of two 4-hour sessions and will certify the member on the commonly used



"core" power tools: chop saw, bandsaw, jointer, planer, table saw, stationary sanders and the drill press.

### **FAST-TRACK CORE TOOL CERTIFICATION**

4-hour class

**Prerequisite: Intro to Guild Safety**

This class is designed for the Professional or Advanced Member to become certified on the "Core tools" which is required to work in the Guild machine room or to take classes using the "core" power tools.

The class consists of one 4-hour session and will certify you on the commonly used "core" power tools: chop saw, bandsaw, jointer, planer, table saw, stationary sanders and the drill press.

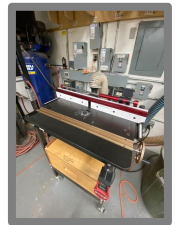
The instructor will demonstrate using each tool and discuss safe practices. There will be the opportunity to practice using each tool. By the end of the class, one should feel comfortable operating each tool safely. Upon successful completion, the instructor will certify the member on the 7 core tools.

### **ROUTERS/ROUTER TABLE CERTIFICATION**

4-hour class

**Prerequisites: Core Tool Certification**

This class is about safe use of routers and router tables and result in Shop Certification on these machines. The class will focus on the best practices for each operation. The member will see it demonstrated, and have the opportunity to perform the actions themselves, hands on.



### **SLIDING TABLE SAW CERTIFICATION**

2-hour class

**Prerequisites: Core Tool Certification**

The goal of this training is to provide the member with the information, demonstration and practice to ensure the safe use of this machine. The member will be required to demonstrate that they have understood the information presented and can successfully complete the trained tasks in a safe manner.



### **MULTI-ROUTER CERTIFICATION**

4-hour class

**Prerequisites: Core Tool Certification**

**Router/Router Table**

The Multi-Router is a mortise & tenon machine for commercial or heavy-duty production of almost any solid-wood joint imaginable. This is an Advanced Tool with the Guild and is the most effective when completing multiple joints with the same or similar setup. This is a step-by-step guide to use the JDS multi-router to build a mortise and tenon joint.



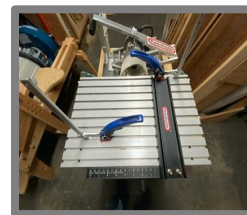
### **PANTO-ROUTER CERTIFICATION**

4-hour class

**Prerequisites: Core Tool Certification**

**Router/Router Table**

The PantoRouter™ uses a guide bearing to follow a template which moves the router bit to cut a pattern identical in shape but 1/2 the size. This class focuses on learning how to use the machine safely. Making various joints will be demonstrated and the trainees will then perform the operations on their own to receive certification for the use of this tool.



### **WIDE BELT SANDER CERTIFICATION**

3-hour class

**Prerequisites: Core Tool Certification & Being a Shop Attendant**

This is training on the safe use of the Wide Belt Sander. Shop rules require the use of this machine to be managed directly by a Shop Attendant (SA) in order to ensure safety of both machine and user. The class will focus on the basic use of the machine including set up, changing the belt, adjusting the height procedures and other related functions. Class is for SA's only at this time.



# Draft Model

## **WOODWORKING CLASSES**

### **FOUNDATIONAL SERIES CLASSES**

#### **THE BASICS OF FINE WOODWORKING**

The Basics of Fine Woodworking Series is designed to provide beginning woodworkers with the basic information and practice to build upon as they begin a progressive journey into woodworking. There are six (6) classes that cover a variety of topics fundamental to woodworking. Each of the classes will fit into a 4-hour time slot and will consist of lecture, demonstration and hands-on practice as each participant takes a simple project from start to finish by the end of the 6<sup>th</sup> session.

**THE PROCESS OF WOODWORKING:** There are various steps involved in taking a woodworking idea from conception to a final product. This session will present a proven sequential path for decision-making, implementation and completion. It will cover, basic concepts of design, layout and measuring.

**UNDERSTANDING WOOD:** This session will cover the types of wood commonly used in the Pacific Northwest; terminology; grain direction and structure; and what types of wood are suitable for different builds. This session

will also build on your knowledge of our core tools as you go through the process of milling a piece of wood for your series project.

**BASIC JOINERY:** There are many types of joints for joining wood. This session will cover the types of joints most commonly used, and where some joints are more suitable for one application over another. Students will use the table saw to cut the joinery for their session project.

**INTRODUCTION TO HAND TOOLS:** This session will introduce the student to various hand tools that are commonly used in woodworking. Topics include what to look for when evaluating the condition of a hand tool and designed use for each tool presented. Students will adjust a hand plane and practice making shavings. Students will use chisels to fine tune the joints on their series project in the next session. Students may use a block plane to bevel proud joinery.

**GLUE-UPS:** Glue-ups present the most stressful aspect of a project unless properly planned and prepared for. This session will cover how to plan and prepare for glue-ups, including glue types, clamps and other methods to position parts for a successful glue-up. Students will glue and clamp their series project.

**INTRODUCTION TO FINISHING:** In this final session, the instructor will discuss and demonstrate surface preparation and multiple ways to finish a woodworking project. Students will prepare the surface of their projects and finish their projects with shellac.

**Prerequisite:** Core Tools Certification

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### **Intro to Woodworking & Furniture Design - Wood, Hand Tools and Joinery**

- Intro to Wood and Hand Tools
- Simple Hand Tool Joinery and Design Options
- Milling and Customization Tool Practice
- Mortise and Tenon joinery and Tabletop Glue-up
- Surface Prep and Base Glue-up
- Fixes and Finishes

**Prerequisites:** Core Tool Certification



# Woodworking R&R Classes

## **BANDSAW CLINIC**

Hands-On Class  
8-hour class

**Prerequisites: Core  
Tool Certification**

In this class, the curriculum provides the student with expanded knowledge of this amazing tool. Based on the famous Michael Fortune Band Saw Clinic, the student learns how to set up a band saw, blade selection, jigs and fixtures and cutting technique.



## **BASICS OF CONNECTING WOOD WITH METAL**

Hands-On Class  
4-hour class

**Prerequisites: Intro  
to Guild Safety**

An introduction to nails, screws and other hardware every beginning woodworker needs to know! The instructor will cover the invaluable uses of fasteners and how they can be used to build furniture and many other projects. So, save that fancy joinery and glue for another day, learn the ins and outs of bolts, nails and screws and start building something today!



## **MILLING FOR BEGINNERS**

Hands-On Class  
4-hour class

**Prerequisites: Core  
Tool Certification**

Every successful project begins with properly milled wood. There just is no way around it. This class will cover wood characteristics, movement issues, grain difficulties and tear out problems, all of which affect the quality of the milling process. Milling instruction begins with rough lumber and through the entire milling process in order to produce stock that is straight, flat, square and ready to



use in any project. Materials will be provided.

## **BEGINNER WOODWORKING MACHINERY MAINTENANCE TRAINING**

Hands-On Class  
4-hour classes

**Prerequisites: Intro  
to Guild Safety**

Looking to raise your woodworking machine maintenance game? The instructor will share his knowledge about the basic principles, safety procedures and hands-on maintenance tasks. The class will cover the common machines (table saw, jointer, planer, bandsaw, router, etc.). Maintenance materials will be provided.



The class objectives are:

- To teach participants the importance of machinery maintenance for safety and efficiency.
- To provide an understanding of basic woodworking machinery and their components.
- To impart hands-on skills for inspecting, cleaning, and maintaining woodworking machinery.
- To promote a culture of safety in the woodworking workshop.

## **BOX CLASS**

This is a broad heading for box classes that will be available during the year. These classes will be designed and delivered by representatives of the Guild Boxes Special Interest Group. The specific focus of each class will be made clear in the posting announcement.

### ***BUILD A CROSSCUT SLED FOR YOUR TABLE SAW***

Hands-On Class

4-hour class

**Prerequisites: Core  
Tool Certification**

The student will be shown the steps to building one of the handiest Table Saw accessories you can have in your shop - A Crosscut sled! With this sled the member will be able to safely cross cut wide pieces with ease and accuracy. This class will

include Practice on the Table Saw cutting sled parts, gluing up the fence, and square up the sled's fence using the 5-cut test. Each member will go home with a completed sled that they can adapt to their saw.



### ***BUILD A STAKE-LEG STOOL***

Hands-On Class

8-hour class

**Prerequisites: Core  
Tool Certification**

In this class pilot we will discuss various design options for your future stake-leg stool projects, and then you will create your own simple stool. Instructor will describe a range of approaches to forming cylindrical tenons that the instructor worked through before arriving at methods for creating accurate and strong cylindrical mortise and tenon joints without use of a lathe.



### ***COASTING INTO KUMIKO***

Hands-On Class

4-hour class

**Prerequisites: Intro  
to Guild Safety**

Enjoy a quiet shop and an introduction to kumiko as you build a drink coaster. The only tools used are a small hand saw and a 1" bench chisel. You will improve your skills with both, but you don't need any experience to start. You'll use the hand saw to cut pieces to length and then use a beveling jig to carefully shave the necessary angles on

each end with a chisel. Bevel jigs, wood strips, chisel and saw will be provided. Bring your own chisel and small saw if you have them.



## GETTING STARTED II: PROJECT CLASS – TOOL BOX

Hands-On Class

Two 4-hour classes

**Prerequisites: Getting Started with Portable Power Tools**

This is a Beginner Project class. The student uses their Getting Started Class skills with Portable Power Tools on a project oriented Getting Started class to build a very practical tool box that you will use a long time. This GS II includes learning how to dado and rabbet with the router and instruction on the Chop Saw.



Customize the tool box dimensions. End panel templates will be provided or the student can use one of their own design. Student ideas are welcome. The student is invited to bring a dimensioned shop drawing of the tool box you'd like to make.

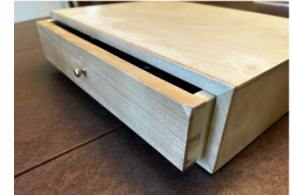
## HANDCUT DOVETAIL DRAWER BOX

Hands-On Class

(2) 4-hour classes

**Prerequisites: Intro to Guild Safety**

The participants will learn the basics of hand cutting dovetails for a drawer that will fit into a simple plywood box.



The primary goal is for students to master layout, cutting, and fitting of the through and half-blind dovetail joint.

The student will leave with many embarrassing initial attempts, a final drawer box that you can show off, and the knowledge and confidence to incorporate hand-cut dovetail joinery in any number of future projects.

## HAND PLANE SKILLS

Hands-On Class

4-hour class

**Prerequisites: Intro to Guild Safety**

A hand plane is a powerful tool for woodworking; it complements power tools and other hand tools beautifully. Learn and practice the most common applications of the most-used hand planes: the jack (#5), smoother (#4), and block plane. If you only use power tools, you'll be exposed to the ways hand tools assist and augment machine work. We'll flatten,



joint, smooth, shoot, bevel, and chamfer quietly and effectively with hand planes. You'll take apart, reassemble and adjust the planes so that they perform well for each task, learning first-hand the importance of sharpness and tool adjustment. We'll also use workshop standbys such as hand saws, squares, straight edges, winding sticks, and shooting boards, as these are the companions of hand planes. If you are new to hand tools this class will be a good start; if you have a little experience you'll gain more.

## INTRO TO CNC AND CERTIFICATION

Hands-On Class

8-hour class

**Prerequisites: Intro to Guild Safety**

There's a lot to learn to effectively use a CNC machine. There is foundational knowledge that provides context and necessary background as well as skill development in the use of design and operations software, and operation of the CNC machine itself. The intro class will provide you with the knowledge and skills to complete a



simple project. This class pairs each student with a mentor during the class and after. Upon completing the class, the member is certified to use the Guild CNC equipment

### **INTRO TO HAMMER VENEERING**

Hands-On Class  
4-hour class  
**Prerequisites: Core Tool Certification**

This is a hands-on, hand tools only session taught by a professional woodworker. This is not a beginning woodworking class but IS a beginning veneering class. If you are brand new to woodworking, please contact the instructor to determine if this is the right class for you.



This age-old technique of manually applying thin, decorative wood to a substrate has been around since 5,000 BCE. The class will cover the history of veneer and furniture, how to handle and organize veneer, layout techniques, adhesive choices, preparing the substrate, jointing and taping patterns together, using the hammer to adhere veneer to a substrate. We will also cover repair techniques. Hammer veneering is the prerequisite to a more advanced veneering class using a vacuum bag.

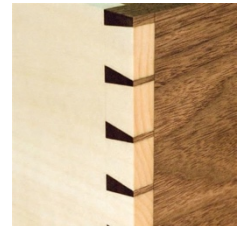
### **INTRODUCTION TO HAND CUT THROUGH DOVETAILS**

Hands-On Class  
(2) 4-hour classes  
**Prerequisites: Intro to Guild Safety**

This introductory course on how to hand cut through dovetails will emphasize

- a) how to mark out dovetails,
- b) proper sawing technique, and

c) proper chiseling technique.



This class is not designed to make students experts in hand cutting dovetails—that will require further practice. However, we will teach students the basic skills and tools needed to hand cut dovetails allowing them to improve their results in the future.

### **LEATHERWORKING FOR WOODWORKERS**

Hands-On Class  
4-hour class  
**Prerequisites: Intro to Guild Safety**

This 4-hour class is for students who want to design and produce durable and attractive leather sheaths for woodworking tools such as draw knives, spokeshaves, small saws and hatchets. This will allow them to store and transport edged tools more safely. Students will also get to try various leatherworking tools, in order to help them buy

their own in the future. They should be able to go home with one sheath of their making, sewn and ready to apply a finish.



## MAKE A BOX WITH HEART INLAY

Learn how to do a simple inlay. You will create an inlay in the side of a box using a template and a router. A precut box kit will be provided to all students and at the end of the session, you will go home with a glued-up box with an inlay. There will be a follow up session for those who would like assistance in finishing their box.



Hands-On Class

4-hour class

**Prerequisites: Core Tool Certification and Router Certification**

If you prefer, you can bring your own piece for the inlay – it must be able to hold a 2" inlay. Please contact the instructor ahead of time if you want to do this.

## MAKING A SIMPLE PENCIL BOX

Hands-On Class

(4) 4-hour classes

**Prerequisites: Intro to Guild Safety**

In this class, you'll use only hand tools to make a butt-joined sliding-lid box from a pine board. Emphasis will be on learning and using hand tool techniques; final box finishing may take place after class. You'll hand saw parts to size and then square up and refine parts with hand planes. A plow plane is used to cut grooves for the sliding box lid. Then chamfer the lid with hand planes and create a recessed pull with a carving gouge and a bench chisel. Finish the box with a smoothing plane and add fine chamfers on all edges. The box is about 10" long by 5" wide by 3.5" high.



Hand tool beginners and intermediates are welcome. Skills to be practiced: hand sawing to medium precision; planing edges straight and square, flattening, grooving, shooting ends and sides, chamfering and smoothing. Bring your own tools if you have them, but don't shop for saws and planes just for this class. We'll have enough saws, planes, and chisels for everyone.

## SCROLL SAW BASICS

Hands-On Class

3-hour class

**Prerequisites: Core Tool Certification**

This class will provide an introduction to the use of the scroll saw. It will also provide Guild Safety Certification for the use of scroll saws in Guild facilities. In this class, the student will learn the basic mechanics of the scroll saw and practice the use of it by making a completed jigsaw puzzle.



## SHARPENING CHISELS AND PLANE IRONS

Hands-On Class

4-hour class

**Prerequisites: Intro to Guild Safety**

This is a four-hour class is designed to bring your chisels and plane irons up to an acceptable level of sharpening, good enough to get back to woodworking quickly. We will focus on how we sharpen the Guild's own tools, primarily using our Veritas sharpening jig since it is relatively simple and the results are

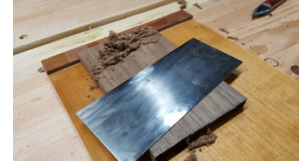


repeatable. We will also briefly cover other approaches, such as sandpaper (Scary Sharp®) and a basic jig, such as the Eclipse and its clones.

### SHARPENING SCRAPERS

Hands-On Class  
3-hour class  
**Prerequisites: Intro to Guild Safety**

The focus of the class is on preparing and using card scrapers, but we will also demonstrate some of their big brothers, both old and modern cabinet scrapers for larger surfaces.



Come to the Studio to learn how to prepare and use one of the most effective tools in the woodworker's arsenal.

Soon you'll be making curly shavings rather than dust. We will supply everything needed, but you are welcome to bring your own card scrapers as well.

Draft Model

### CURRENTLY SCHEDULED CLASSES:

TO SEE WHAT CLASSES ARE AVAILABLE AT THIS TIME, CHECK FOR THE POSTINGS ON THE EDUCATION CALENDAR –

<https://guildoforegonwoodworkers.org/Education-Calendar>

