



Jigs for Mortise and Tenon Joinery by Hand September 15 and 16, 2012

We'll be building the jigs in this class, but also learning how to use them effectively. Most of the tools on this list will be used in making the jigs. However, it's very important that you have a decent tenon saw and mortise chisels for the actual joinery work.

Tenon Saw	A high quality 14 or 16 inch tenon saw. It works best if filed rip or hybrid cut (rip with a bit of fleam)
Flush Cut Saw	The Veritas Kugihiki saw (60T06.20) is amazingly good for tenon shoulders, but any good flush cut saw should work
Hand Plane	A smooth plane (typically a number 4) or a jack plane (number 5).
Router Plane	Veritas and Lie-Nielsen make great modern ones
Rasp	For shaping the decorative ogee curve. Nicholson #49 or #50, or the like
Spokeshave	Also for shaping the ogee
'Card' Scraper	Helps to smooth out that ogee
Mortise chisels	1/4", 5/16", and 3/8"
'Regular' chisels	at least 1/2", 3/4" for paring mortises (a full set is fine) note: I have one chisel (5/8") that I've ground to a 20 degree bevel and 23 degree micro-bevel that I use only for paring - it works very well
Marking Gauge	One with a knife or scribing disk
Mallet	For chopping mortises
Cordless drill with extra battery and charger, with a screwdriver tip	
Dust mask	
Hearing protection	
Safety glasses or other eye protection	
Work apron if you usually wear one	
Notebook	
A camera is always helpful to remind you of what's happening , and to document what we're covering	

If you have any questions, please don't hesitate to get in touch. I'm happy to make more specific recommendations if you need them.

-Jeff Miller

MAKING YOUR OWN JIGS FOR ACCURATE MORTISE & TENON JOINERY WITH JEFF MILLER

Syllabus:

Saturday

Introduction. Explanation and demonstration of the jigs we'll make. Building and testing the tenoning jig. Making spacers for specific tenon sizes. Making depth stops. Making a shoulder jig. Start on the mortising jigs.

Sunday

Finishing up the mortising jigs. Hand chopping mortising, and finishing them up with the jig. Adjusting the jigs as needed. Using the jigs for standard and more complex (angled, compound angled) joints. Variations for angled mortises.

Discussion

Clean up

Cut List

Any stable hardwood will work for these jigs.

Wood needed for the tenoning jig:

1 piece 1 3/8" by 4" by 20"

1 piece 1 1/8" by 4" by 7"

1 piece 3/4" by 4" by 7"

1 piece 1/4" (or the exact thickness of the spine on your tenon saw) by 4" by 2"

1 piece 1 1/8" by 11 3/8" by 11" (glued up as necessary)

Another board foot or two of 4/4 material will cover fences, shims, etc.

Wood for the mortising jig: (you'll probably want to make at least a couple of these for different sizes of mortises)

1 piece roughly 1 1/2" by 4 1/2" by 15" for each jig

In addition, we'll need wood for cutting practice joints - some 1 1/2 to 1 3/4 in. thick square stock, and some 1 in. and some 3/4 in. thick stock.

Questions? Feel free to get in touch!

Jeff Miller

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ALL SATURDAY AND SUNDAY CLASSES START AT 9:00 AM EASTERN TIME

For all classes it is a good idea to bring is a pencil, notebook, a dust mask, ear plugs and without a doubt, safety glasses and a camera, if you would like to take pictures. ● **Classes marked with dot (●) do not have a specific tool list.**
If your class requires hand tools, the tool list will be with this page. Lunch is included and will be served around noon.

Date	Class	Instructor
April 21-22, 2012	Introduction to Translucent Mineral Inlay	Stephen Hatcher
April 21-22, 2012	Fine Finishing with Hardware Store Materials	Tim Puro
April 28-29, 2012	Build A New-Lebanon Stool with a Splint Seat	Kerry Pierce
April 27-29, 2012 (Fri eve- Sun)	Making A Venerated Keepsake Jewelry Box	Paul Schurch
May 5, 2012	●Getting the Most from you Bandsaw	Michael Fortune
May 5-6, 2012	Build an Arts & Craft or a Modern Indoor/Outdoor Bench	Tim Celeski
May 5-6, 2012	Cold Bronze Casting & Mold Making	Scott Grove
May 5-6, 2012	Handplanes & Their Uses	Lie-Nielsen & Schwarz
May 19-20, 2012	●Machines: Safety, Set-ups & Uses	Steve Latta
May 19-20, 2012	Decorative Finishes with Flair	Mitch Kohanek
May 19-20, 2012	Teapots: Vessels with Carved Feet & Handles	Michael Hosaluk
June 9, 2012	●25 Ways to Machine Mortise & Tenon Joints	Jerry Forshee
June 9, 2012	●Chain Saw Safety by Stihl	Craig Walker
June 9-10, 2012	Dancing Glass: Stained Glass with a Twist	Cathy Claycomb
June 9-10, 2012	Making a Skateboard or Longboard, Parent/Child	Chris Gochnour
June 16, 2012	●Laser Marquetry: An Introduction to the Future of Veneering	Marc Adams
June 16, 2012	Making the Roubo Bookstand	Roy Underhill
June 16-17, 2012	Making a Router Table	Doug Dale
June 23-24, 2012	The Basics of Wood Finishing	Mitch Kohanek
June 23-24, 2012	Introduction to Intarsia	David Roth
June 23-24, 2012	Decorative Chip Carving	Craig Stevens
July 14, 2012	Fretboard Inlay: Secrets of Dealing with a Radius & Frets	Grit Laskin
July 14, 2012	What You Need To Know Before Starting Your Own Business	Carl Booth
July 14-15, 2012	Pattern Inlay & Decorative Borders	Steve Latta
July 14-15, 2012	Son of Skew	Alan Lacer
July 21-22, 2012	Husband & Wife Woodturning	Alan & Mary Lacer
July 21-22, 2012	Parent/Child Magic Class	Jeff Scanlan
July 28-29, 2012	Basic Veneering	Marc Adams
July 28-29, 2012	Principles of Wwkg Through the "Eyes" of a Simple Table	Keith Neer
July 28-29, 2012	Web Page for Woodworkers	Mark Sterner
July 28-29, 2012	Your Turn: Starting Out Right on the Lathe	Michael Mocho
August 4-5, 2012	Make a Beautiful European Style Cherry Cabinet	Zane Powell
August 4-5, 2012	Pyrography: An Introduction to Wood-Burning	Julie Bender
August 11-12, 2012	Making a Mountain Dulcimer	John Ressler
August 11-12, 2012	Gilding & Leafing: A Priceless Art	Peter Gedrys
August 11-12, 2012	Various Jigs & Fixtures of a Modern Boxmaker	Doug Stowe
August 18, 2012	Tricks to Installing All Kinds of Hardware	Doug Stowe
August 18-19, 2012	Hammer Veneering	David Orth
August 25, 2012	●Photographing Your Work	Michael Fortune
August 25-26, 2012	Carving Soap Stone	Mohammed Taheri
August 25-26, 2012	Really Cool Band Saw Puzzle Boxes	Jeff Vollmer
September 15, 2012	Getting Started in Spray Finishing	Mitch Kohanek
September 15-16, 2012	Back to Basics: Exploring Form	J Paul Fennell
September 15-16, 2012	Making Your Own Jigs for Accurate Mortise & Tenon Joinery	Jeff Miller
September 16, 2012	Lacquer Systems	Mitch Kohanek
September 22, 2012	Making Tambours & Angled Corner Cabinets	Zane Powell
September 22-23, 2012	●Sawing, Sorting & Stacking: How to Harvest of Log	Alf Sharp
September 22-23, 2012	Scroll Saw Potential	Marc Berner
September 22-23, 2012	Raise Your Woodworking Profile: Using Molding Planes	Williams & Mc Connell
October 6-7, 2012	Epoxy Surface Treatments for Woodworkers	Mark & Carol Hedin
October 6-7, 2012	●Machine Maintenance, Jigs & Fixtures	Powell & Dale
October 13-14, 2012	Making a Federal Executive Document Box	Headley & Hamilton
October 13-14, 2012	Taking Control of Color: The Next Step in Finishing	Mitch Kohanek
October 13-14, 2012	A Touch of Texture	Jennifer Shirley
October 20-21, 2012	The Making of Woodturning Tools, Jigs & Accessories	Alan Lacer
October 20-21, 2012	Basics of Upholstery	Mike Mascelli
October 20-21, 2012	Jigs & Fixtures for the #1 Chair	Michael Fortune