

# Syllabus

## JOINERY & HANDTOOLS CLASS

### Day 1

#### Introduction to the unplugged workshop

1. Learn to Sharpen and hone your tools:
  - Introduction to Sharpening Tools
    - Wet stones, Grinders, Honing jigs
    - Demo and hands on practice sharpening and tuning:
      - Scrapers
      - Chisels
      - Handplanes
      - Spokeshaves
2. Learn to mill up your rough lumber by hand.
  - Demo and hands on practice
3. Understanding Wood and Joinery – lecture/discussion
  - a. Introduction to Tools for handcut joinery
  - b. Terms: joint actions, joint names
  - c. Elements of a joint, types of joints
  - d. Wood movement, grain, strengths of wood
4. The Rabbet & Dado Joints
  - Introduction to Rabbets & Dados– elements of joint, variations, application
  - Learn to Cut Rabbets, Dados, Dado Rabbets, Tongue & Groove, Finger Joints

### DAY 2

1. The Lap & Bridle Joints
  - Introduction to Lap & Bridle Joints– elements of joint, variations, application
  - Learn to Cut Corner Half lap, cross half lap, corner Bridle Joints
2. The Dovetail
  - Introduction to Dovetails – elements of joint, variations, application
  - Learn to Cut Through Dovetails
    - Laying out and cutting through dovetails—building on pins and tails
    - Practice project (small box)
  - Learn to Cut Half Blind Dovetails
    - Demonstration on how to cut half-blind dovetails

### **DAY 3**

1. Dovetails Continued
  - Learn to cut dovetails with different thicknesses of wood
  - Learn to cut Lap Dovetails
  - Layout and cut lap dovetails
  
4. **Mortise & Tenons**
5. Introduction to Mortise and Tenons
6. Elements and application and variations of the joint.
2. Learn to layout and cut a mortise and tenons by hand
3. Layout and cut a:
  - i. Through mortise and tenon
  - ii. A Haunched mortise & Tenon
  - iii. Frame & Panel

### **DAY 4**

#### **1. Mortise & Tennon Continued**

- I. Angled mortise and tenon layout and cutting techniques
  - II. Layout and cut a trestle mortise and tenon joint.
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2. Dynamic cutting, symmetrical layout, converging charts
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- #### **3. Three Way Joints Just for Fun**
1. Introduction to the three way joint
  2. Elements and application and variations of the joint.
  3. Learn to layout and cut a by hand

### **DAY 5—Cabinetmaking joinery & handtool work**

1. Case joinery—rabbits, housed joints and joint choices for the frames
2. Door joinery- Cope and stick joinery for doors
3. Tops & Panels - Beading Planes
4. Hand scraping
5. Project Work completions
6. How to correct mistakes
7. 2:45 pm clean up and presentation