



SHELTER
Think.Build.Live

Purely Post and Beam Class Syllabus

Intro:

Introduction to the classic structure we will build, an overview of timber framing, as well as an in depth discussion of the tools and their strengths, weaknesses and differences. Open house in store for students to select any additional tools they need to purchase.

Drafting Workshop:

Conventions of Blue Prints – explanation of drafting tools and details. Each student draws elevations and joinery detail. Students learn the fundamentals of drafting, the details of the structure, as well as technical terms for the joints and framing members used.

Plans and Cutting to Length:

Each student will receive a copy of cutsheets that detail each piece of wood in the building with the joint locations and specs clearly marked. We'll review these plans and how to read them and begin by cutting each piece of wood to length.

Sharpening Tools:

Preparing your chisels for cutting; whether your chisels are 200 years old or straight from the manufacturer they need to be sharpened. When we are through sharpening you will be able to shave the hair off of your arm!

Layout of Joints:

If you have ever been on a construction site you have heard the age old piece of advice: “measure twice, cut once”. This is just as true in timber framing as it is in any other building project and perhaps more so because of the cost of each piece of wood. Laying out the joint accurately can be time consuming and difficult. We show you how to do it accurately and efficiently.

Cutting Joints:

All joints are cut by hand. Each student is assigned one framing member and begins cutting once he/she has completed the layout process and had an instructor sign off on it. You'll begin removing material with instruction.

Refining Joints:

The framing members are assembled by hand so accuracy and care must be taken with each joint. Class tolerances are +/- 1/16". We'll teach you how to use some specialty tools like slicks and sliding t-bevels to ensure that you take just the right amount of wood off of your joint and not a bit more!

Engineering: We will examine the process of beam sizing, performing bending moment, shear and deflection calculations. The International Residential Code will be discussed, as well as the effect of mortises on beam strength.

Assemble bents

Old Fashioned Timber Frame Raising