

Day 1

Understanding the Frame

Layout, Joinery Basics,
and Cutting

Morning (Orientation + Prep)

Instructors

Welcome, safety briefing (tools, lifting, PPE)
Introduce timber framing principles:
Post & beam system
Mortise & tenon joinery
Load paths for the stage roof
Walk through the stage design (bents, bays, roof structure)

Participants

Get assigned to small crews (3–5 people)
Learn to read plans and timber labels
Practice layout techniques on sample beams
Late Morning (Layout Work Begins)

Instructors

Demonstrations:
Marking mortises and tenons
Use of framing square, story poles, and layout tools

Participants

Begin laying out joinery on actual timbers:
Posts
Beams
Braces

Afternoon (Cutting & Shaping)

Instructors

Supervise tool use:
Chisels, mallets, circular saws, drills, chainsaws (if used)
Float between groups, correcting technique

Participants

Cut:
Mortises in posts
Tenons on beams
Braces
Start test-fitting joints

End-of-Day Goal

Majority of joinery laid out
~50–70% of cuts complete
Participants understand the system

Day 2

From Parts to Structure

Final Joinery and Bent Assembly

Morning (Finish Cutting and Refinement)

Instructors

Troubleshoot joinery issues
Demonstrate fine-tuning for tight fits

Participants

Complete all joinery
Dry-fit joints on the ground
Label and organize components

Midday (Bent Assembly Begins)

A “bent” = one vertical frame section

Instructors

Lead assembly of first bent as a demonstration
Show proper peg installation (wooden joinery pins)

Participants

Assemble remaining bents in teams:
Posts + beams + braces
Drill peg holes and drive pegs
Afternoon (Pre-Raising Prep)

Instructors

Prepare rigging plan (ropes, braces, safety roles)
Assign lifting roles

Participants

Help stage the site:
Lay out bents in order
Prep footing connections
Organize tools and pegs

End-of-Day Goal

All bents assembled on the ground
Ready for raising
Participants understand how pieces fit structurally

Day 3

Bringing the Structure to Life

Raising the Frame and Completion

Morning (Frame Raising)

Instructors

Direct safe raising process
Assign roles:
Lift teams
Pegging crew
Stabilization crew

Participants

Raise bents one by one (community-style lift)
Install:
Temporary bracing
Connecting beams (girts, plates)

Midday (Structure Lock-In)

Instructors

Ensure frame is plumb, square, and stable

Participants

Install:
Ridge beam (if applicable)
Final braces
Remaining pegs
Afternoon (Stage Integration + Wrap-Up)

Instructors

Guide finishing tasks:
Deck framing or platform integration
Hardware tightening (if hybrid system)

Participants

Assist with:
Final adjustments
Sanding or light finishing (optional)
Site cleanup
Closing Session

Group reflection

Photo of completed structure
Q&A and next steps (roofing, decking, etc.)

End-of-Workshop Outcome

By the end of Day 3 timber frame structure is standing
Participants have:
Laid out real joinery
Cut and assembled structural members
Helped raise a full frame