

Reflective Narrative

Joint Frame

- Task: To create a drawing of a joint frame and construct the joint frame using the drawings and materials provided. The following dimensions and joints are required as part of this project. 14" x 24" x 3/4" frame, joints used in frame: mitred half-lap, dovetail half-lap, bridle, hunched mortise & tenon, half-lap and dowelled butt.
- Why: To practice drafting by hand, learn accurate layout/setup techniques, demonstrate safety when working in, on or around the shop/machines, gain experience with jointers, planners, table saws, routers and the jigs used on the machines.
- Learning Outcome: Following proper procedure and techniques when first learning how to use the machines. The importance of accuracy and squaring your finished pieces, always beware of your surroundings while in the shop (shop safety).
- Use of Knowledge in Career: Basic drafting skills are used everyday in the shop from reading drawings or making quick sketches. Learning how to use machines, and jigs correctly will reduce time spent on setup. This will reduce waste and time spent on projects. Joinery is used in almost all aspects of woodworking
- Problems Encountered: Cut a joint incorrectly on a stile that had 2 other joints already cut, re-machined styles and re-cut all three joints again. Machining the mitre half-lap.
- Mistakes Made: When re-machining the stile to correct the joint that was cut incorrectly, the blanks were out of square. Fixed by using a hand plane.
- Difficult Part: Using the jointer and planner. That's where most of the problems arose. Cutting the mitre half-lap joint was also difficult. Setup times were long because it was the first time I have ever used some of the machines. I wanted to make sure I was using equipment correctly, while being concerned safety. Trying not to rush in, planning the working and taking my time.
- Easiest Part: I had no problem with any of the drafting and the dowelled butt joint was very easy to make. I enjoyed the project altogether as I love working with wood and my hands. Also learning how to use some of the machines. I will use everyday in my woodworking career.
- More Information: More documentation for the joint frame can be found in the work samples section.