

# Small Jewelry Box Procedure

- Draw out the design in Inventor.
- Print out the set of plans
- Complete a Bill of Materials for the project.

## Jewelry Box Sides/Ends/Bottom

1. Break out stock \_\_\_\_\_ pce(s) x \_\_\_\_\_ width x \_\_\_\_\_ length
  - a) layout parts on rough stock
  - b) get approval from instructor
2. Joint a face side with the jointer - mark it
3. Joint a face edge with the jointer – mark it
4. Plane to finished thickness of \_\_\_\_\_ - face side down
5. Rip all pieces to final WIDTH of \_\_\_\_\_ on the Table Saw
6. Cut a 1/8" dado on the table saw that is \_\_\_\_\_ deep and \_\_\_\_\_ up from the bottom to create the slot for the plywood bottom to eventually slot into.
7. Cut a \_\_\_\_\_ deep by \_\_\_\_\_ wide rabbit into the top of your board(s) on the router using a rabbeting bit so a top can eventually be inset into the box once it is glued together.
8. Set the Mitre Saw to 45<sup>0</sup> and cut one end on a 45<sup>0</sup> angle. **MAKE SURE YOU CUT THE CORRECT WAY!!!** Check for 90<sup>0</sup> square with a try-square. See below.
9. Set a "Stop" at \_\_\_\_\_ and make the second cut to complete your first piece. **MAKE SURE YOU CUT THE CORRECT WAY!!** Repeat the process for 2 pieces.
10. Set a "Stop" at \_\_\_\_\_ and make the 3<sup>rd</sup> and 4<sup>th</sup> pieces. **MAKE SURE YOU CUT THE CORRECT WAY!!**

11. Using a band clamp, DRY CLAMP the box together to make sure it fits and the corners are tight. **DO NOT GLUE TOGETHER AT THIS POINT!**

12. Sand the inside of the box all the way to 220 grit. It cannot be done after the box is glued together

### **Jewelry Box Top**

1. Find a piece of material that is 1" thick. As the box is small you can find a piece that is wide enough or you can glue 2 pieces together
2. Joint a face side with the jointer - mark it
3. Joint a face edge with the jointer – mark it
4. If it is a single piece, plane to finished thickness of \_\_\_\_\_ - face side down
5. Rip the piece to final WIDTH of \_\_\_\_\_ on the Table Saw
6. **If the top consists of 2 or more pieces**, glue together
7. **If you glue pieces together**, scrap excess glue off and plane to thickness of \_\_\_\_\_
8. Cut one end square on the Mitre Saw
9. Cut to final length on the Mitre Saw
10. Sand the inside of the Top all the way to 220 grit. It cannot be done after the box is glued together

### **Assembly of Box**

1. Measure and cut a piece of 1/8" plywood for the bottom, Measure the inside (longest part) of the dado of the side and end pieces. This will give you the width and length of the plywood.

The size of the plywood is \_\_\_\_\_ wide x \_\_\_\_\_ Long

2. Find a suitable piece of plywood from the plywood rack and cut to the size above
3. Using a band clamp, DRY CLAMP the box together (including bottom and top) again to make sure it fits and the corners are tight. If not, adjust the side of the top and bottom.
4. If everything lines up and the fit is good, glue the box together and then band clamp it. Ensure there is NOT too much glue so that it does not ooze into the inside of the box. Wipe any excess off carefully if there is. Let dry until next class.

5. Remove from band clamp and remove excess glue from the outside if necessary.
6. Layout location for the splines. **Keep in mind that you will NEED a spline that is located on the lid once you cut the box apart**
7. Cut the splines using the spline jig on the table saw. Ensure a backing board is in place so you do not chip out the wood
8. Thickness plane a piece of SCRAP wood for the spline and make sure it fits snugly in place.
9. Glue spline in place and let dry.
10. Trip down spline and they sand smooth.
11. Sand the outside of the box all the way to 220 grit.
12. Go to the table saw and cut the lid off. Ensure at least ONE SPLINE is in the lid!! Use the "Lid jig" to cut the top off
13. Install hinges as demonstrated by the teacher based on your project.
14. Finish the project with a water based stain.
15. Submit for marking