

# WOOD SHOP

## CUTTING BOARD

**ESTIMATED COST: \$5**

**ESTIMATED LENGTH: 6 HOURS (SPLIT INTO 2 CLASSES)**



### NEEDED MATERIALS:

Variety of hard wood (Cherry, Black Wal-nut, Maple)

Planer (if available)

Table Saw

Miter Saw

Titebond III Ultimate Wood Glue (waterproof and food-safe)

Cabinet Clamps (Jorgensen work best - at least 2 per cutting board)

Scraper (for removing excess glue)

Graph Paper and Pencil

Ruler

Jig Saw (for more detailed boards)

Drill (for making handles)

Sander and/or Loose Sandpaper (80-240 grit)

Food Grade Oil for Finishing (walnut oil, coconut oil, olive oil or mineral oil)

Wax and Protectant Applicator Pads (for applying oil)

# CUTTING BOARD DAY 1

## INTRO AND CLASS SUMMARY

1. Gather Students And Begin In Prayer.
2. Read And Discuss Quotes (Your work reflects you):

“But the great Creator Who made the creation! There has to be a Creator if there is a creation. And if there is a creation, it was made by a Creator. And any man’s work reflects himself. He’s a good carpenter, he does good work, he builds. And if he’s a good mechanic, he does good work. Your work only reflects you. And God’s creation reflects God”

62-1209

3. Go over basic safety rules again.
4. Show sample boards that instructors have made to help give ideas.
5. Let students design their own design using pencils and graph paper.

## BUILDING THE CUTTING BOARD

- 1 Choose a board from one of the woods you want to use. (Cherry, Black Walnut, Maple) Stay away from boards with bark, as they will hold food particles and bacteria.
- 2 Plane board until it is smooth on both sides. (This gives a random width of board) \*
- 3 Rip board into 1 1/8 inch wide pieces (This will be the thickness of the cut-

ting board. Every strip should be the same width) \*

- 4 **CHOOSE THE PIECES YOU WILL NEED FOR YOUR PROJECT. EVERYONE WILL KEEP A FEW OF THE STRIPS FROM THE BOARD THEY MADE UP TO THIS POINT, AND POOL THE REMAINING PIECES. THIS ALLOWS EVERYONE TO ASSEMBLE A BOARD FROM DIFFERENT SPECIES OF WOOD, WITH LITTLE WASTE. YOU SHOULD BE ABLE TO GET SEVERAL PIECES FROM EACH STRIP. EACH STRIP WILL BE A DIFFERENT WIDTH SO BE CAREFUL TO BALANCE YOUR PROJECT.**
- 5 **LAYOUT THE LENGTHS YOU WILL NEED, AND MARK YOUR BOARDS TO LENGTH.**
- 6 **USE MITER SAW TO CUT STRIPS TO LENGTH \***
- 7 **LAYOUT THE CUTTING BOARD, DOUBLE CHECKING LAYOUT OF THE BOARDS. (MAKE SURE THE BOARDS ARE ROTATED WITH THE SAW CUT SIDE UP) MAKE SURE YOU WILL BE ABLE TO LAYOUT YOUR DESIGN ON THE BOARD.**
- 8 **MOVE TO THE GLUE TABLE AND APPLY GLUE TO EACH SIDE OF EACH STRIP.**
- 9 **CLAMP TOGETHER, CHECK THAT THE BOARDS ARE LEVEL ON THE CLAMPS AND THAT EACH BOARD IS ORIENTED CORRECTLY. (THIS IS YOUR LAST CHANCE TO CORRECT ERRORS)LAYOUT THE LENGTHS YOU WILL NEED, AND MARK YOUR BOARDS TO LENGTH.**
- 10 **TIGHTEN CLAMPS. DO NOT OVER TIGHTEN AND FORCE OUT TOO MUCH GLUE. CHECK FOR SIGNS OF A DRY JOINT WHERE THERE IS NOT ENOUGH GLUE. IF THERE IS NOT ENOUGH GLUE IN THE JOINT THE JOINT WILL FAIL, AND YOUR BOARD WILL SPLIT. (YOU SHOULD SEE GLUE COMING FROM EACH JOINT. REMEMBER TO CHECK THE BACK SIDE ALSO.)**
- 11 **USE SCRAPER TO REMOVE EXCESS GLUE.**
- 12 **SIGN NAME ON PROJECT, AND LET GLUE DRY.**

*\*12 to 15 year old class will require more instructor assistance, especially with power tools.*

# CUTTING BOARD DAY 2

## INTRO AND CLASS SUMMARY

1. Gather Students And Begin In Prayer.
2. Read And Discuss Quotes (Doing things RIGHT):

“Joseph was a carpenter; and he loved his job, and he loved to do things just right. And being a believer in God and knowed that there was Someone Who watched over him, he wanted all of his work to be just exactly right.”

60-0311

3. Go over the steps involved in completing board

## BUILDING THE CUTTING BOARD

- 1 REMOVE CUTTING BOARDS FROM CLAMPS
- 2 REMOVE EXCESS GLUE WITH A SCRAPER TO PROTECT DAMAGE TO THE PLANNER.
- 3 RUN THE CUTTING BOARD THROUGH THE PLANNER UNTIL BOTH SIDES ARE SMOOTH. (THICKER IS BETTER.)\*
- 4 LAYOUT THE PATTERN FROM THE GRAPH PAPER ONTO THE CUTTING BOARD. INSTRUCTORS SHOULD ENCOURAGE THE STUDENT TO MAKE ANY CHANGES NEEDED TO IMPROVE THE DESIGN. TRY TO KEEP DESIGNS FAIRLY SIMPLE, THE MORE COMPLEX DESIGNS COULDN'T FINISH IN THE ALLOTTED TIME.
- 5 CUT BOARD SHAPE USING LAYOUT ON THE BOARD. THIS MAY INVOLVE USING MITER SAW, JIG SAW, OR DRILL TO GET THE WANTED SHAPE. (SEE SLIDE-SHOW PICS FOR EXAMPLES)

- 6 SAND ALL EDGES AND BOTH SURFACES UNTIL SMOOTH, STARTING WITH 80 GRIT PAPER FOR ROUGH SHAPING AND MOVING UP TO 240 GRIT FOR THE FINAL FINISH. DO NOT SKIP STEPS, BECAUSE THE COURSE GRITS CAN LEAVE SCRATCHES THAT ARE DIFFICULT TO REMOVE WITH REALLY FINE SANDPAPER. IF YOU NOTICE A DEFECT THAT IS DIFFICULT TO REMOVE, DROP BACK DOWN TO A COURSER GRIT AND THEN WORK YOUR WAY BACK UP. (JUST LIKE BROTHER BRANHAM SAID: “YOU GOT TO GO BACK TO WHERE YOU WENT WRONG AND START OVER FROM THERE”) THE EDGES ARE MUCH HARDER TO GET SANDED RIGHT THAN THE SURFACE BECAUSE THE PLANER DOES MUCH OF THE WORK FOR YOU ON THE SURFACE. THEREFORE THE MARK OF A CRAFTSMAN IS HOW WELL HE DOES THE DIFFICULT STEPS. THIS “DIFFICULT STEP” WILL MAKE THE DIFFERENCE BETWEEN AN “OK” AND A “GREAT” PROJECT. DON’T SETTLE FOR “ALMOST GOOD ENOUGH.” THIS IS WHERE THE INSTRUCTOR SHOULD REALLY ENCOURAGE THE STUDENTS TO TRY TO EXCEL AND DO A “GREAT” JOB.**
  
- 7 AFTER THE PROJECT HAS BEEN INSPECTED AND APPROVED BY THE INSTRUCTOR YOU MAY APPLY THE FINISH. THE PROPER FINISH FOR A CUTTING BOARD IS A FOOD GRADE OIL FINISH. (COCONUT OIL, WALNUT OIL, OLIVE OIL, OR MINERAL OIL ARE GOOD OPTIONS) DO NOT USE A VEGETABLE OIL AS IT WILL TURN RANCID. THE OIL SHOULD BE APPLIED LIBERALLY (MULTIPLE COATS) SO IT WILL REALLY SOAK IN AND PROTECT THE WOOD FROM MOISTURE.**
  
- 8 INSTRUCT STUDENTS IN CARE OF BOARD. NORMAL USE WILL REMOVE THE PROTECTIVE COATING OF OIL WHICH SHOULD BE REAPPLIED REGULARLY. IF THE BOARD IS HEAVILY USED AND BECOMES SCARRED, IT IS SIMPLE TO RE-SAND THAT SURFACE AND THEN REAPPLY OIL.**

*\*12 to 15 year old class will require more instructor assistance, especially with power tools.*