

# DOVETAIL JOINT

## AIM:

To produce a dovetail joint from the given work piece.

## APPLICATION:

Cross bars in a cot, shelves.

## SUPPLIED MATERIAL SPECIFICATION:

Veneer wood of size  $150 \times 45 \times 30$

## TOOLS REQUIRED:

- 1) Jack plane. 2) Hand saw. 3) Steel rule.
- 4) Pencil. 5) Marking gauge. 6) Try square.
- 7) Firmer chisel. 8) Cleaning brush. 9) Wooden pallet.

## SEQUENCE OF OPERATION:

- 1) Preparing. 2) Marking. 3) Cutting. 4) Finishing.

## WORKING STEPS:

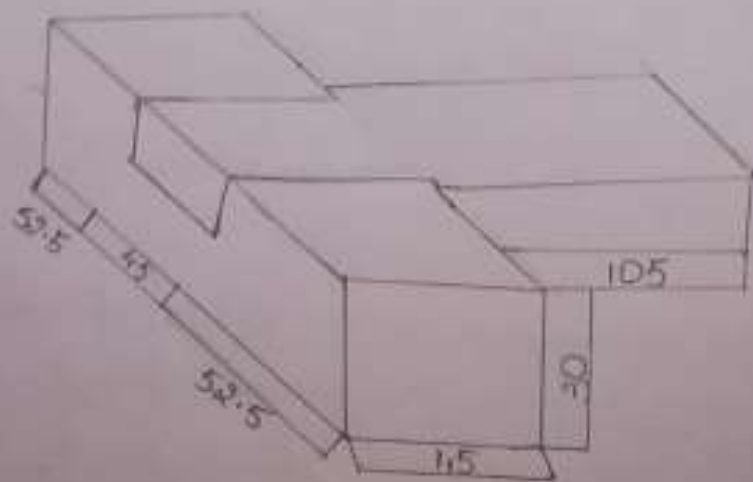
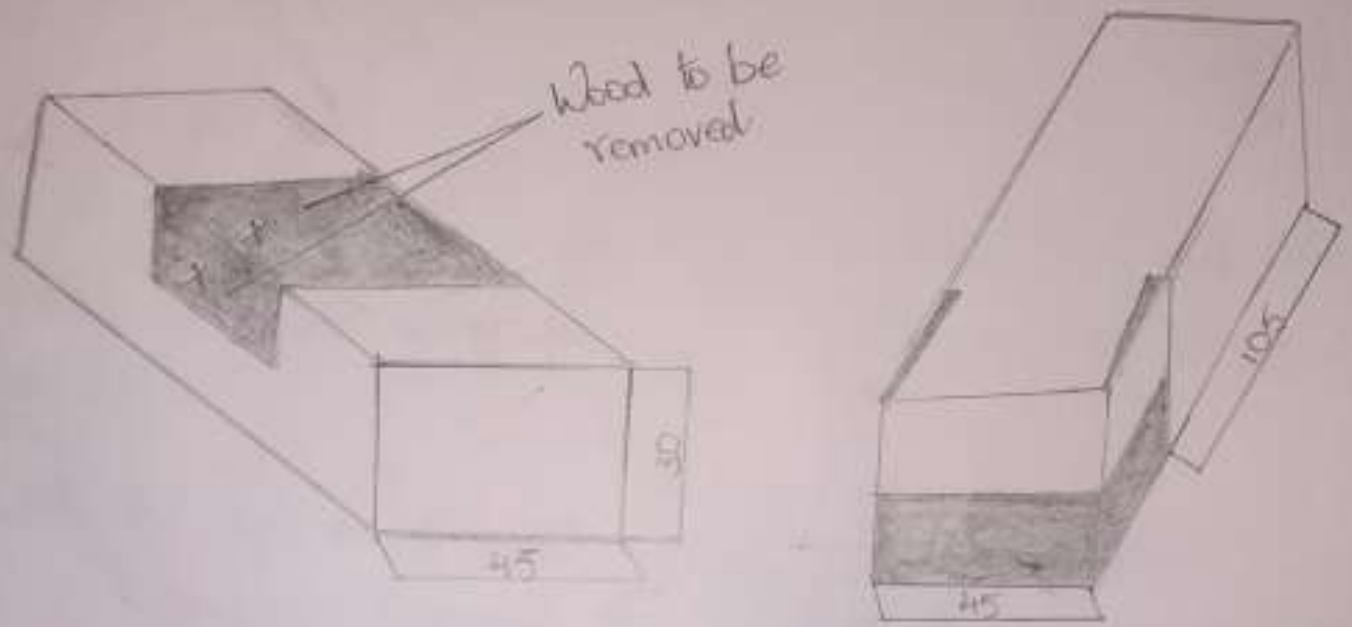
### 1) PREPARING:

- a) Prepare the work piece as described in previous with a length of 150mm, 45mm, 30mm.

### 2) MARKING:

- a) Adjust the marking gauge to 15mm and set out the distance from the face side (A) at one end of the face edges (B).
- b) With Try square & scriber check a perpendicular line in the face side (A), from the marked line at a distance of 45mm from the end. This will produce a rectangular of  $45 \times 15$  at the end of the face of the edge (B).
- c) Now on (A) side mark a line on all four sides & on (B) side mark first after 53mm second after 45mm.

Diagram:



d) Mark a line on 6 inches from the steel rule measurement.

e) Now on (A) side mark 45mm after 5mm on up and down side.

f) Then on (B) side after 5mm & 45mm in between mark 5mm on top & bottom.

### 3) CUTTING / SAWING:

a) First, hand sawing the back part of the (A) side till the marking.

b) Then saw the 5mm and 5mm marking on the (B) side and use Flatter chisel and wooden mallet to chip off the wood.

c) Now use Rasp to remove extra 5mm on up & down on (A) side.

d) Use Rasp to smooth up the sawed area & the join up two pieces once you cut the piece by and saw from the middle.

e) Join the two pieces in form of 'T'.

### 4) FINISHING:

a) Take a series of small cuts delicately on both the side pieces to remove the excess wood.

b) Obtain a fine finish of the socket and shoulder assembly joint & clear off all waste by some brush.

### RESULT:

The Dove Tail joint was produced from the given work piece and assembled joint was submitted for evaluation.