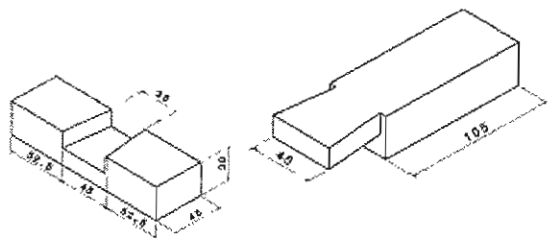


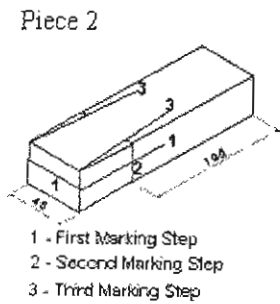
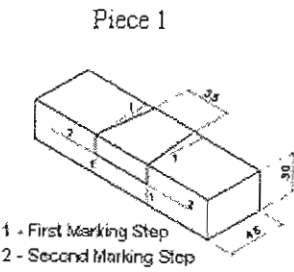
DOVETAIL JOINT

Make a Dovetail Joint as per the dimensions shown in figure

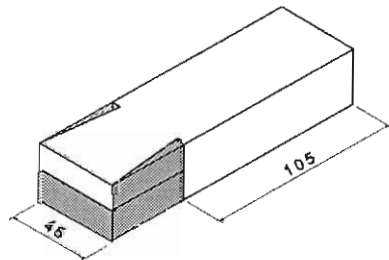
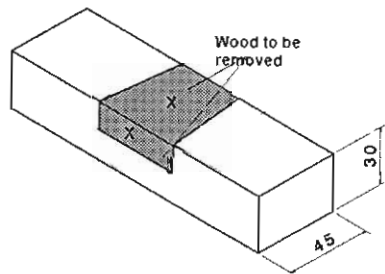
Given Dimensions for the required Joint



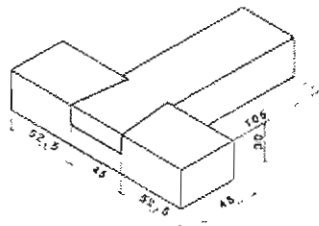
I. Marking



II. Cutting / Sawing



III. Finishing & Testing



## DOVE TAIL JOINT

### AIM:

To produce a Dove tail joint from the given work piece

### APPLICATION:

Cross bars in a cot, shelves.

### SUPPLIED MATERIAL SPECIFICATION:

Venteek wood of size 150 x 45 x 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 mallet

### SEQUENCE OF OPERATION:

- 1) Preparing. ) Marking. 3) Cutting/Sawing. 4) Finishing.

### WORKING STEPS:

#### **1) PREPARING**

- a) Prepare the work piece as described in previous with a length of 150mm, 45mm and 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 & scribe 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 x 15 at the end of the face of the edge (B)
- c) Now on (A) side mark a line on all four side & on (B) side mark first after 53mm second one after 45mm
- d) Mark a line on 6 inches from the steel rule measurement.
- e) Now on (A) side mark 45mm after 5m or up and down side.
- f) Then on(B) side after 53mm & 45mm in between mark 5mm on top & bottom.

#### **3) CUTTING / SAWING:**

- a) First, hand sawing the back part of the (A) side tills the marking.
- b) Then saw the 5mm & 5mm marking on the (B) side and use firmer 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 and the join up two pieces once you cut the piece by and saw from the middle.
- e) Join the two pices in form of 'T'

#### 4) FINISHING:

- a) Take a series of small cuts delicately on both the side pieces to remove the excess wood. Obtain a fine finish of the socket and shoulder assembly joint and clear off the waste by wire brush

#### RESULT:

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

