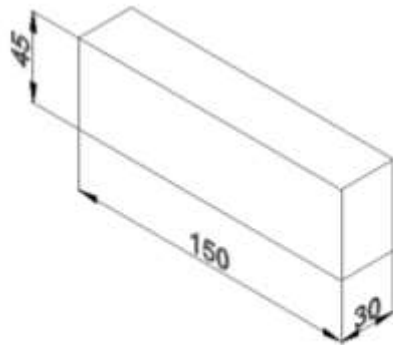
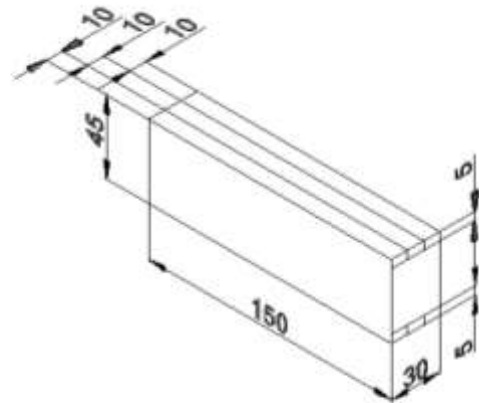


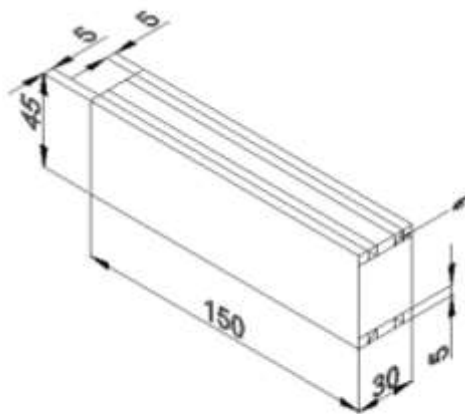
# DUSTER



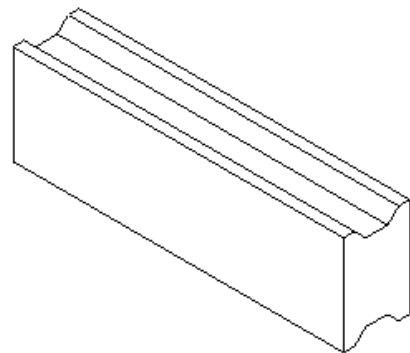
WORK PIECE



MARKING STEP-1



MARKING STEP-2



FINISHED DUSTER

All dimentions are in mm

# DUSTER

**Ex no :**

**Date :**

**Aim:**

To construct a duster from the given work piece.

**Application:**

Cross bars in a cot, Shelves.

**Material Specifications:**

Venteek wood of size 150 X 45 X 30 mm

**Tools required:**

- 1) Pencil      2) Steel rule      3) Try square      4) Marking gauge.
- 5) Hand saw      6) Firmer chisel      7) Mortise chisel      8) Rasp
- 9) Wooden mallet

**Sequence of operation:**

- 1) Preparing      2) Marking      3) Cutting /Sawing / Chiseling      4) Finishing

**Working Steps:**

**1) Preparing:**

Prepare the work piece as per the specifications in a length of 150 mm, width 45 mm and thickness 30 mm.

**2) Marking:**

- a) Adjust the marking gauge to 10mm and set out the distance from the same along all the four sides of the piece on the 30mm thickness side from both ends.
- b) Again, adjust the marking gauge to 5mm and set out distance along all the four side of the piece.
- c) Now mark a distance of 5mm perpendicular to these lines on the 30mm X 45mm side from both ends.
- d) Mark a diagonal line on at the inner square thus formed.

### 3) Cutting /Sawing / Chiseling:

- a) Hold the piece horizontally in away such that the portion to be cut is just above the jaw. Use a hand saw to cut along the required line marking but slightly insides the line as shown in figure to the required 5mm depth.
- b) Now using a firmer chisel take a series of cuts to remove the wood up to this 5mm depth.
- c) Hold the piece again a firmer chisel slantly chip off the wood from the along The material diagonal side.

### 4) Finishing:

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



### **Pre Lab Questions:**

1. Which is the weakest wood joint?
2. List out 3 types of chisels?
3. How many types of rasp and Mention any two?
4. Mention any four types of timber?
5. What is the function of chisel?

### **Post lab Questions:**

1. What is vice and name various types of vice?
2. How many types of joints are there in carpentry?

3. Classify the chisels and their applications?
4. List out the types of hand saw?
5. What is the main purpose of the table saw?



**Result:**

The Duster was produced from the given work piece and submitted for evaluation.