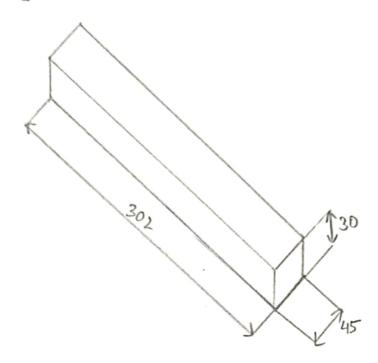
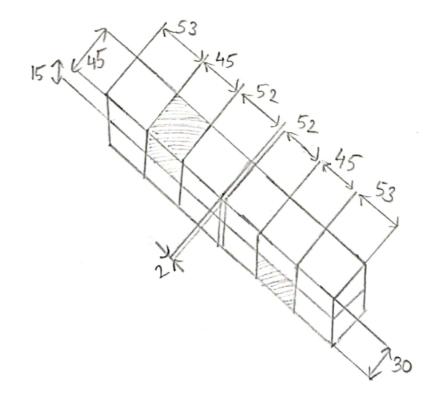
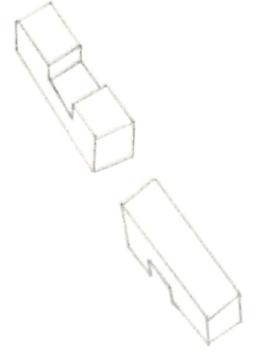
U) WORK PIECE

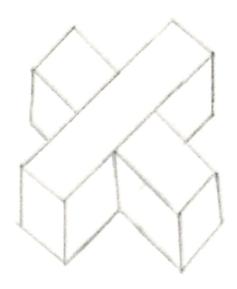


(2) UNWANTED PORTION MARKING



(3) ASSEMBLED WORK PIECE





ALL DIMENSIONS ARE IN MM.

To produce a cross halving joint from the given work

APPLICATION:

Gass bare in a cot, Shelves, Frames for cheap flush panel doors.

* MATERIAL SPECIFICATIONS:

Ventuele wood of size 302x 45x30 mm.

* TOOLS FEQUIPED:

- 1) Percil (2) Steel Rule (2) Tay Square (4) Marking gauge (5) Hand saw (6) Firmer chisel (7) Mortise chisel
- (8) Wooden mallet (9) Rasp.

* SEQUENCE OF OPERATION:

(1) Preparing (2) Marking (3) Cutting / Sawing | Chiseling (4) Finishing.

* WORKING STEPS: (1) Preparing: Prepare the work piece as described in a length of 302 mm, width 45 mm, thickness 30 mm. Using a try square and pencil, first mark from right side of the work piece with distance of 53 mm then 45 mm and 52 mm. 12) Marking: -> Again draw Imm line given for cutting clearance. in Mark again from left side of work piece at same distance for right side. duing marking galle draw the center line 15 mm face edge for both side. The intersecting portion to be marked on the 45mm face side and 15 mm face edge, on one side top another side (3) Cutting | Sawing | Chriseling: carpentry bench wice, hold the piece horizontally and tightly in a vice such that the portion to be cut is just above the jaw. Use primer chisel, to make growe on first and second marking right side 53 mm, 45 mm & 52 mm. Then take the work piece and place them on the right side of bench vice then use the hand sow up to 15 mm depth on both lines. As per same procedure for another side do it.

Before chiseling hold the piece horizontally and tightly

in a vice such that the portion to be is just above Now using a firmer chisel take series of cuts to remove the wood up to the bottom line, as shown in figure.

furishing: Take a series of small cut delicately on both the pieces to remove the excess wood. Make it smooth with rasp.
Obtain a fine finish of the top and bottom side.
Then to be cut wooden piece middle of 2mm. Assemble joint and clean off waste: * PRE AND POST LAB QUESTIONS: Q1 Define Carpentry. Carpentry is a skilled trade and a craft in which the primary work performed is the cutting, shaping and installation of building naterials during the construction of buildings, blc. Q2. What are the types of wood used in compentry? Ans: (1) Teak wood. (2) Sal wood. (3) lly wood. (4) Nova-Pan wood / MDF. (5) Rubber wood. (6) Venleck wood. Q3. How do you classify hand tools ? Ans = Hand took can be divided into: (1) Layout out tools. (2) Impact or striking tools. (3) Twisting tools on fastering tools (4) bloodcutting tools 15) Metal cutting look (6) Halding tools (7) Safety equipment. (8) Guinding and Sharpening tool. (9) Finishing tool

Q8. Q4. What is holding tools in carpentry? Ans Ans = 11) black Beach (2) Carpenter Vice (3) Clamps (4) Screwdiner 09 (5) Tape measure Any why are back saw blades made with different sized teath ? Ans= Different sixed teeth provide varying levels of cutting fower. Large blades with fewer teeth are better wited to tough naterials, while smaller blades with a greater number of teeth are designed for finer work 811 An Q6. How can flatness be tested? Ans: Methods for flatness testing: () Using two footed twisted gauge (2) Spirit Level Method. 3) Anto collinator. (, (4) Beam comparator. (5) Laser Beam (6) Comparing with liquid surface. (7) Interference method. 87. What tools are needed for framing? (9) Chisel Ans= (1) Storage space (10) Carpenter's Pencil (2) Toolboxes (11) Cat's pan (3) Tool belt (1) Kammer (5) Tape measure (6) Utility Krife (7) Squares (8) Level

Ans = blooden nallets are usually used in compentry to knock wooden pieces together or to drive dowels or shirely.

And: Prepare natural to size, square or rectangular in section as required. Make a pair of knife lines all the way round each piece. Let a marking gauge to half the thickness of the wood. Gauge a line along the edges between the knife lines on each piece. Reinforce initial knife line cuts on waste areas.

A10. What is the cutting angle of a chisel ?

Any = The Chisels are factory delivered with a cutting edge angle of 25°. This angle is suitable for off to medium hard wood.

* RESULT:
The Cross halving joint produced from the given work piece, is and assembled joint was submitted for evaluation.