## STUDY of FITTING SHOP

Safety Precautions 1) po not use afile evithand a handle

- 2) Do not use funches and hommer with mushroom beach
- 3) Do not use hammer with a loose head
- 4) Keep your hands away from moving ports
- 5) Ensure that the work piece is clampfed in the vice firmly and securely.
- 6) Keep the hand foots and vice clean
- 7) Always use a brush to remove any chips
- 8). Always rollup your serves or wear short selves
- 3) Tuch in your shirt before storting any operation
- 10) hemore winst exalches, rings, braclets, bangles ek. Since they con lead to injuries
  11) Wear always safety shoes

## FITTING SHOP STEP FITTING

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Ex HO: 4 Date:

AIM:

To construct step fitting using mildsteel work piece

Application:

fabrication industries, Aireraft inclass fries, Automobile industries

Malerial specification
Mild steel metales places of climension 50 mm x50mm x6mm

Tool Required

1) Sheel rule

2) Try square 3) Jenny Califer 4) 12" flat rough file 8) Ball pen hammer

5) 6 Flat smooth file 9) Barch vice

6) 6" Try orgalor file +) Pot Purch 10) Hackson frame with blade

Sequence of operation

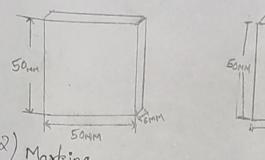
1) Preparation 2) Marking 3) Culting 4) Filling 5) Finishing 6) Filling

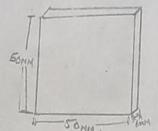
Working Steps:

1) Preparation

i) check the initial dimensions using steel rule
2) fin the job on a bonch vice and file the two adjacent sides using a flat
file to form right angles

3) checking for the perpendicularity with try square





2) Marking

1) Apply cholk on the work swface

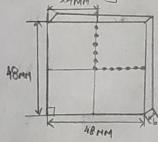
2) Measure the given dimension using jamy coliper from the skelp boll

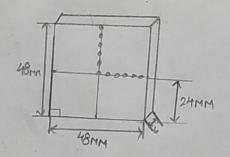
3) Transfex the measured dimension to work piece 4) Mark the dimensions on the work piece with right angle as reference edge 5) Refeat the above sleps with the next right angle side as reference edge to mark

the dimension. 6) Scribe line along the marked dimensions on the workfriece. Indicate the unworted fortion

7) Make dobs along these lines using dot punch, which is called aspunch lines.

8) Oraw line porallel to these punch lines at a distance of 2 mm from them which are called culting lines.



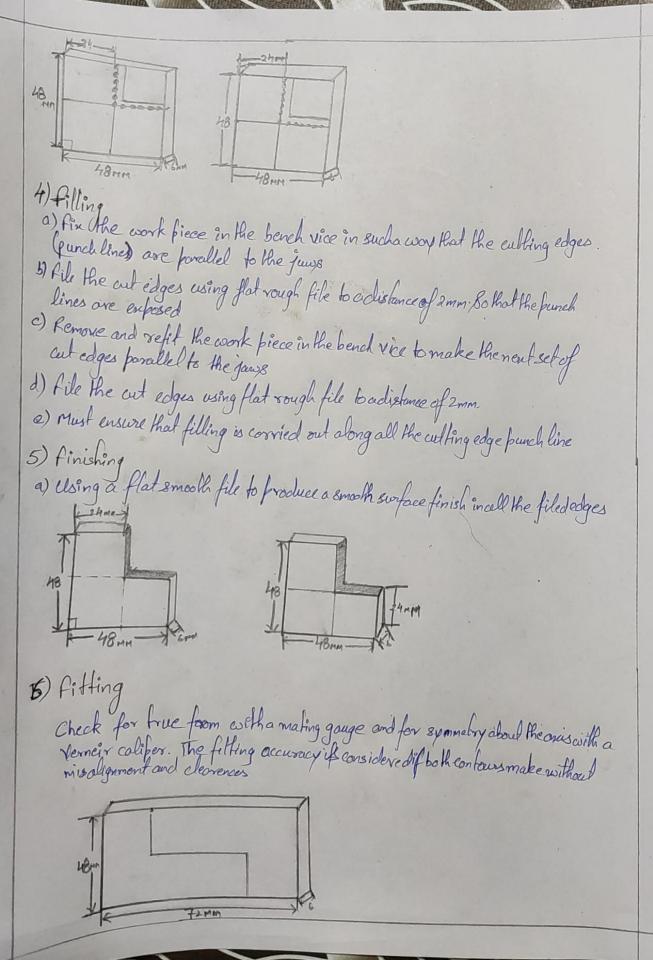


i) fin the work freeze in the benchvice in such a way that the cutting line is perpendicular to the jaws of vice

2) Cut along the cuffing time

3) Repeat the step fill culting is finished along all the culting line by arranging the coort piece in the vice

H) Must ensure that culting is corried out along all the culting lines.



Pre Lab Question What is filting?

Filling is working a part to make it fit its mating part in a joint. This making part. should be completely finished Mention process in the filting shop?

1) Preparation 2) marking 3) culting 4) filling 5) Finishing 6) fitting 3) 4st out the fitting tools?
V Colliper 2) Try square 3) skel rule 4) jointy eallifer 3) Hommer etc. 4) Describe filling filing is a malerial removing process in manufacturing 5) fist out type of file V Rough flat Roughfile A) flat Smoothfile Post Lab Question 1) What is the angle of Pot Runch? 2) How to check the perpendicular? by using try square 3) Expansion of TPI Teeth per inch 4) What is the feeth count of sheel rule How to fix the blade in the Hackson frame?

Nossen the wing nut near the backson is bandle lossen the nut by terring it commiter-clockwise ensure the wing nut is losse enough so you can enough so you can enough so you can remove the old from the blade a) formere the old black frome Remove the table by lifting it off the blade retaining pins at each end of the frame

- 3) Install a new table blade onto the blade retaining ping. Ensure the blade's leeth point
- 4) Tighten the wing nut by rotating it clockwise untill the blade is fight
- s) make a fest out on a frece of scrap metal held in a vise. Tighten the wing nut father if the blade binds or flenes during the cut.

Thus a step filling is obtained out of the given work piecewith specific dimensions shape, finish and accuracy with proper filling