STEP MAKING

To make step making using fitting process. AZM:

SUPPLIED MATERIAL SPECIFICATIONS

Mild steel plates of specification (50×50×60) mm.

APPARATUS REQUIRED:

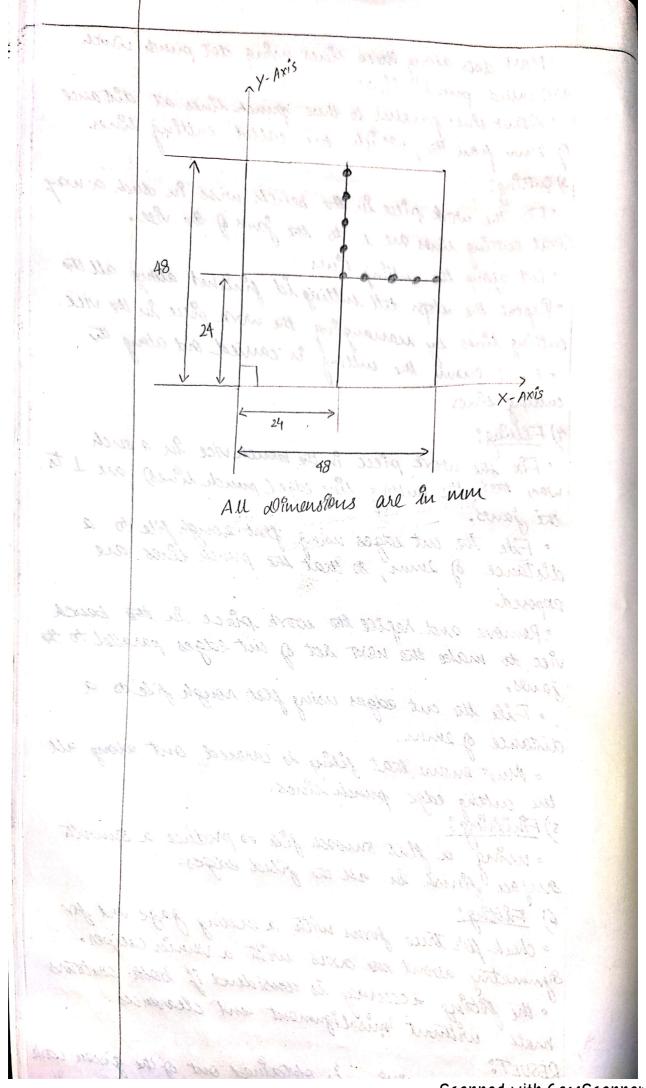
- · Hack saw frame with blade
- · Try square.
- o Stell rule.
- o Caliper.
- o Files.
- · Ball pen.
- o hammer.
- o center punch.
- · Dot punch.

SEQUENCE OF OPERATION:

- opreparation.
- · Marking .
- o cutting.
- · Filling.
- · Finishing.
- · Fitting.

WORKING STEPS:

- 1) PREPARATION:
- · Check the inttial dimension using steel rule.
 - · Fix the job on a bench vice & file the two
 - adjasent silves using a glat file to form right angle · Check for the perpendicularity . (with try square)
- 2) MARKING :
 - · Apply Chalk on the work surface.
 - Measure the summers on. · Trunger the measured dimension to the work piece.
- · Mark the sumensions on the work piece with one
 - of the filled sides as reference edge.
- . Repeat the slove steps on other dides. · Scribe lines along the morked dimensions.



· Mark dots along these lines using dot punch which are called punch lines. · Doant lines parallel to these punch lines at distance of 2 mm from the, which are called cutting lines. 3) Cutting · Fix the work piece in the beach wise in such a way that cutting when are I to the james of the Nee. · Repeat the steps till cutting id finished along all the entting lines by rearranging the work piece in the vice. · Must ensure the cutting is carried out along the cutting lines · Fix the work piece in the bench vice in a such 4) Filling: way that the culting line edge (punch lines) are I to · File the cut edges using flat hough file to a the jaws. distance of 2mm, so that the punch lines are · Remove and refill the work piece in the bouch vice to make the next set of cut edges parallel to the exposed. . File the cut edges using flat rough file to a jans. · Must ensure that filing is carried out along all distance of emm. the cutting edge punch heres.
5) Finishing: ouring a flat smooth file or produce a smooth surface finish in all the filed edges. · check for True form with a meeting gage and for Symmetry about the ownies with a vernier caliper. the fitting accuracy is considered if both contours without misslignment and clearances. Thus a step fitting is obtained out of the given won piece with sp. timension, shape, Thush & acuracy .