

Workshop Technology Practical Work

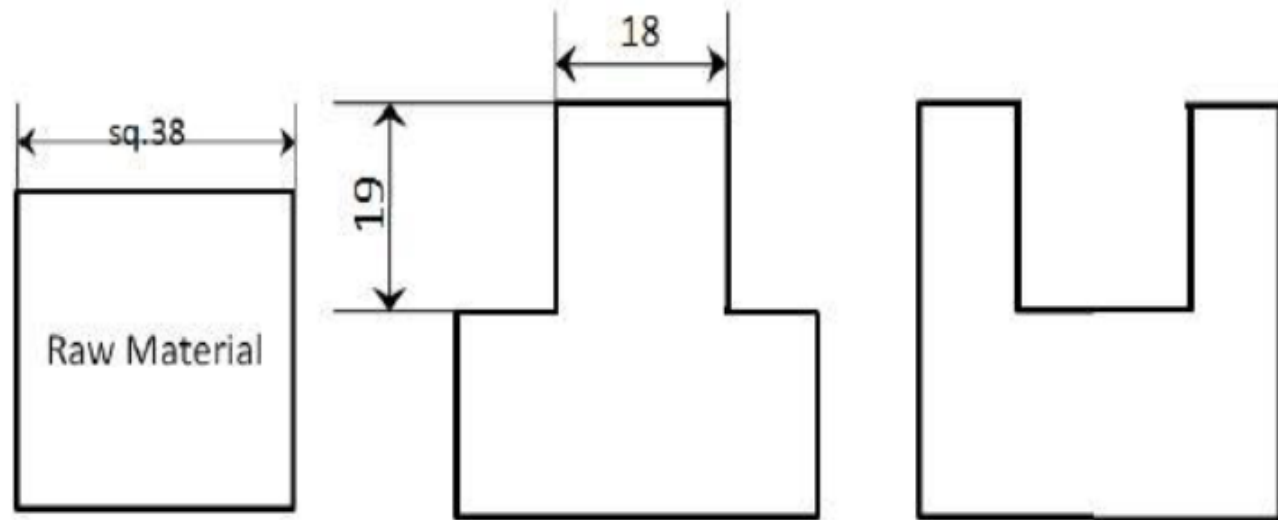
Square Cutting

AIM: To make a Square fit from the given mild steel pieces.

MATERIALS REQUIRED: mild steel flat (40*40*3mm).

TOOLS AND EQUIPMENT REQUIRED:

1. 6" try square
2. 6" scribe
3. Odd leg caliper
3. 12" hack saw Frame
5. 10" rough file
6. 10" smooth file
7. 10" Square file
8. Dot punch
9. Ball peen hammer
- (0.5lb).
10. Steel Rule



SEQUENCE OF OPERATIONS:

1. Filling
2. Marking
3. Punching
4. Sawing
5. Filling
6. Finishing

PROCEDURE:

1. The given mild steel flat piece is checked for given dimensions.
2. One edge of given is filed to straightness with rough and smooth files and checked with try square.
3. An adjacent is also filed such that is square to first edge and checked with try square.
4. Wet chalk is applied on one side of the flat and dried for marking.
5. Lines are marked according to given figure, using odd leg caliper and steel rule.
6. using the dot punch are made along the marked lines.
7. The excess materials removed from the remaining two edges with try square level up to half of the marked dots.
8. Finally butts are removed by the filing on the surface of the fitted job.

PRECAUTIONS:

1. The perpendicularity of face ends edges is checked perfectly by using try square.
2. Finishing is given by using only with smooth files.
3. Marking is done without parallax error.

RESULT: The Square cutting is done successfully