

071506T4MTP

MECHANICAL TECHNICIAN LEVEL 6

ENG/OS/ME/CR/2/06/A

FABRICATE SHEET METAL PARTS

March/April 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACT MENT

RS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. Prepare the **Operation Procedure Sheet** as per the working drawing,
 - ii. Produce the component shown on the working drawing as per your prepared operation procedure sheet,
 - iii. Inspect the finished work and record in the form “**Candidate’s Inspection Checklist for the Finished Work**” provided in **Appendix 1**.
 - iv. Label your product using a masking tape. Indicate Your name and registration Code

This paper consists of EIGHT (8) printed pages

**Candidates should check the question paper to ascertain that all pages are
printed as indicated and that no questions are missing.**

2. You have been provided with the following resources for the practical tasks:

- Materials:
 - **Mild steel sheet metal gauge 22:**
 - 250 × 230 (2 off)
 - 200 × 190
 - 270 × 45
 - 290 × 240 (2 off)
 - 190 × 170
- M6 × 1 Bolt and nut (4 Off)
- Hinge- 2 Inches
- Flat Head rivet 12 Off – 5mm length
- 3-inch door hasp latch
- Sheet metal Cutting Machine
- Bench vice
- Bending machine
- Drilling machine
- Sheet metal punching machine
- Drill bits $\varnothing 3\text{mm}$ & $\varnothing 6\text{ mm}$
- Sheet metal punching die $\varnothing 3$ and $\varnothing 6\text{ mm}$
- Functional Oxy-acetylene gas welding equipment and its accessories
- Brazing filler rod $\varnothing 3\text{mm}$
- Steel rule
- Scriber
- Vernier caliper
- Vernier height gauge
- Angle plate
- Assorted hand Files
- Hacksaws
- Assorted Hammers
- Chisels

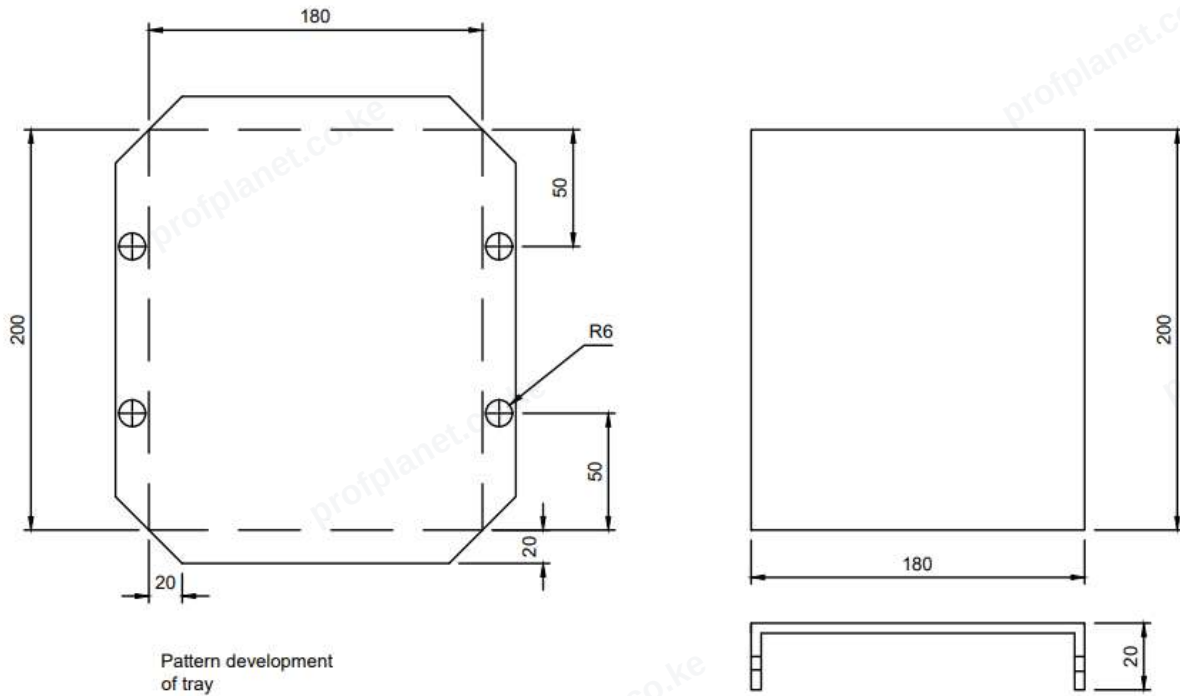
- Stakes
- Assorted Snips
- Centre punch
- Tri Square
- safety goggles
- Safety leather Gloves
- Overall/apron
- Safety boots.

Note:

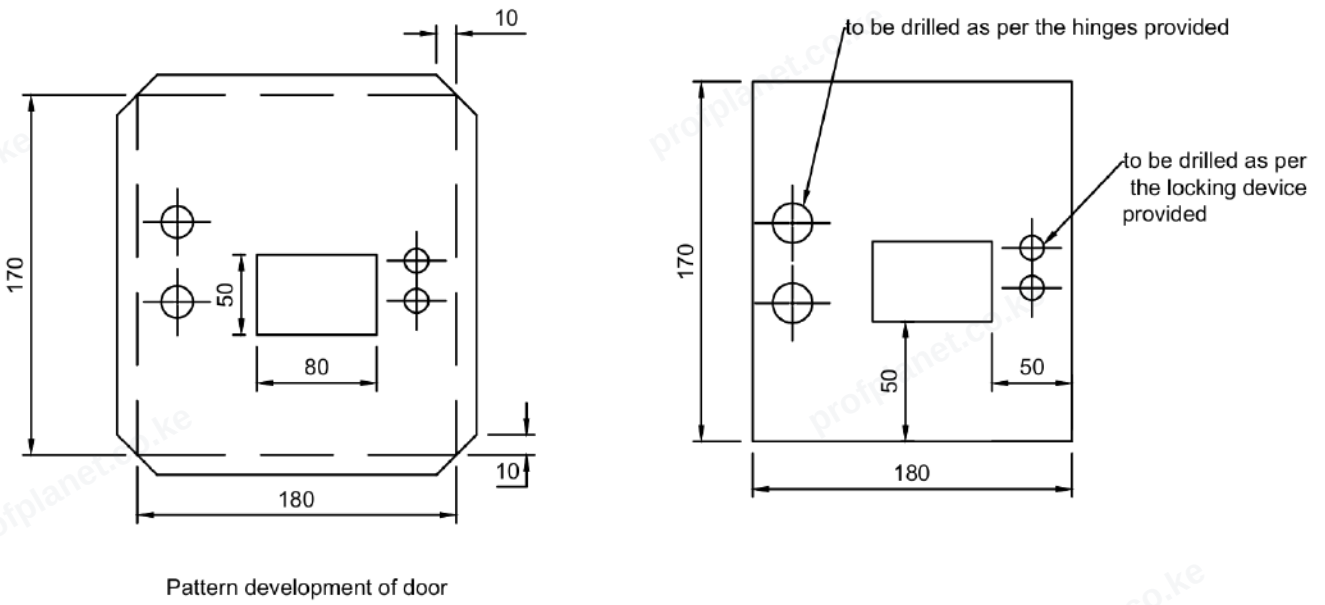
- **All dimensions are in mm**
- **Tolerance**
 - **± 1 on the final assembly**
 - **± 0.5 on material prepara**

WORKING DRAWING

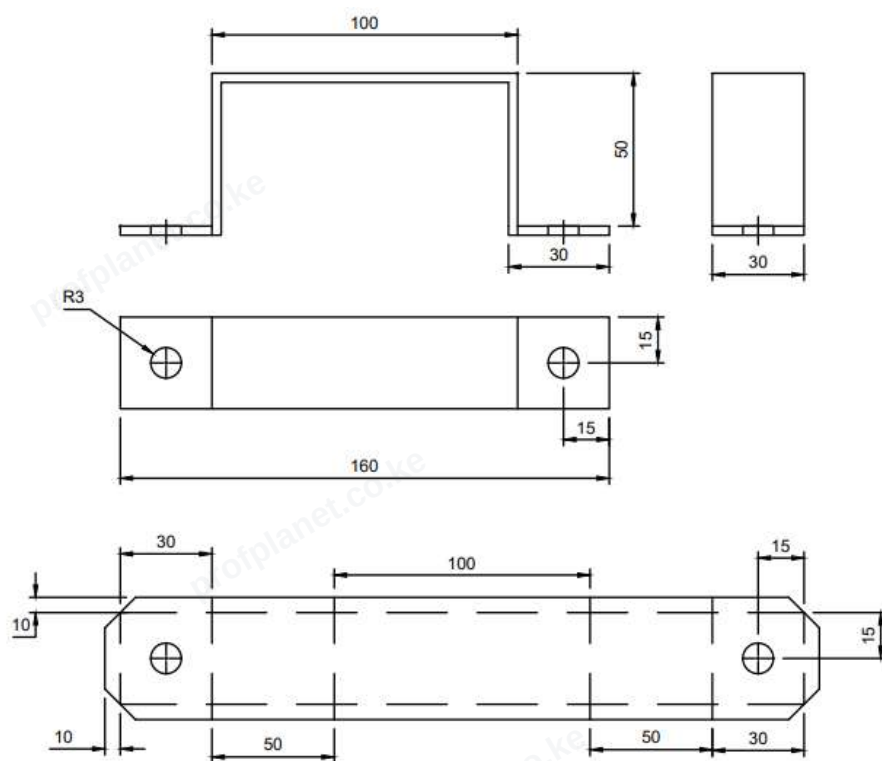
a. Tray



b. Door

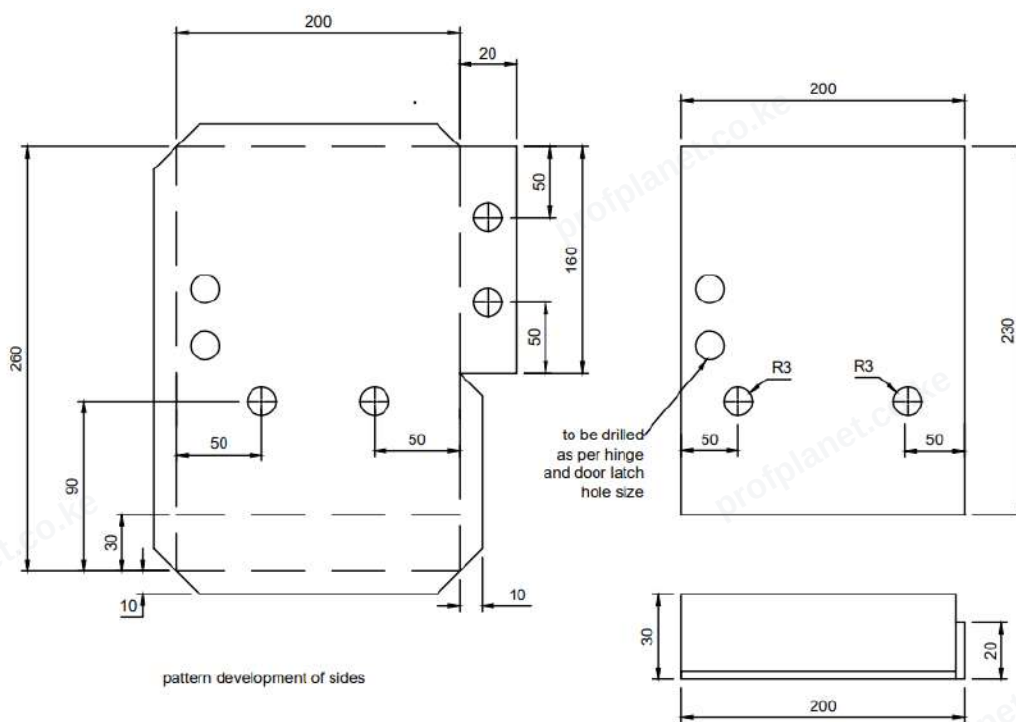


c. Handle



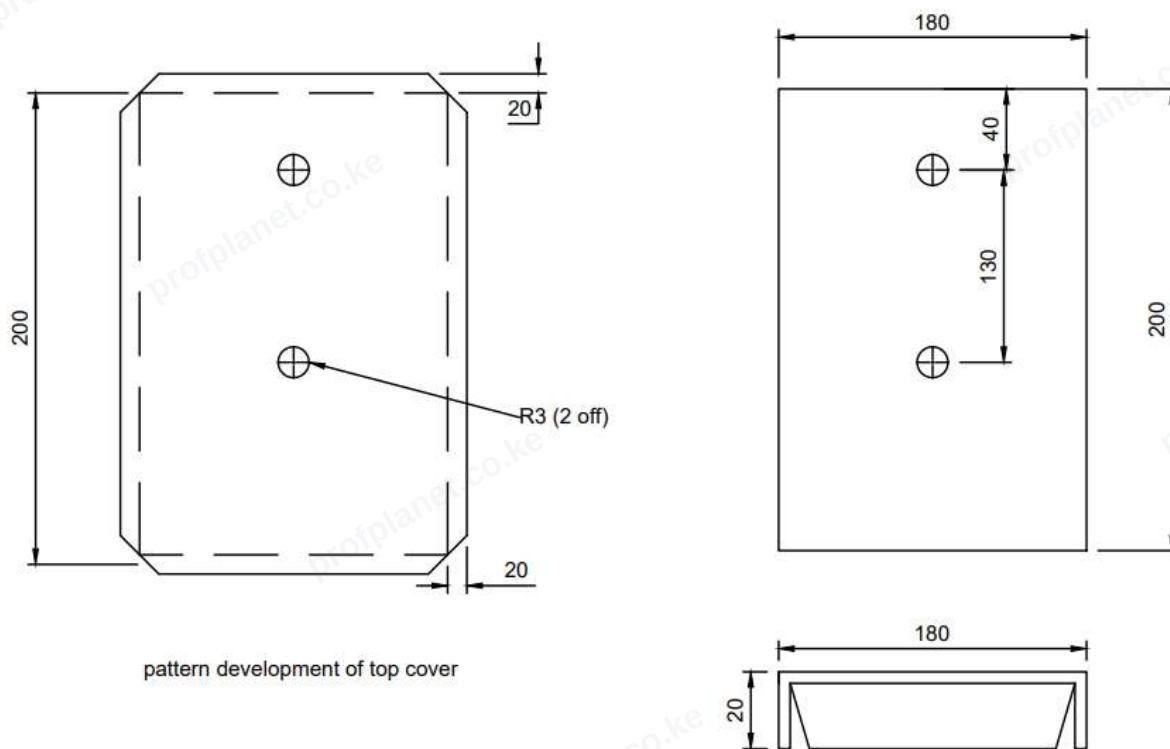
Pattern development of handle

d. Sides(2 off)

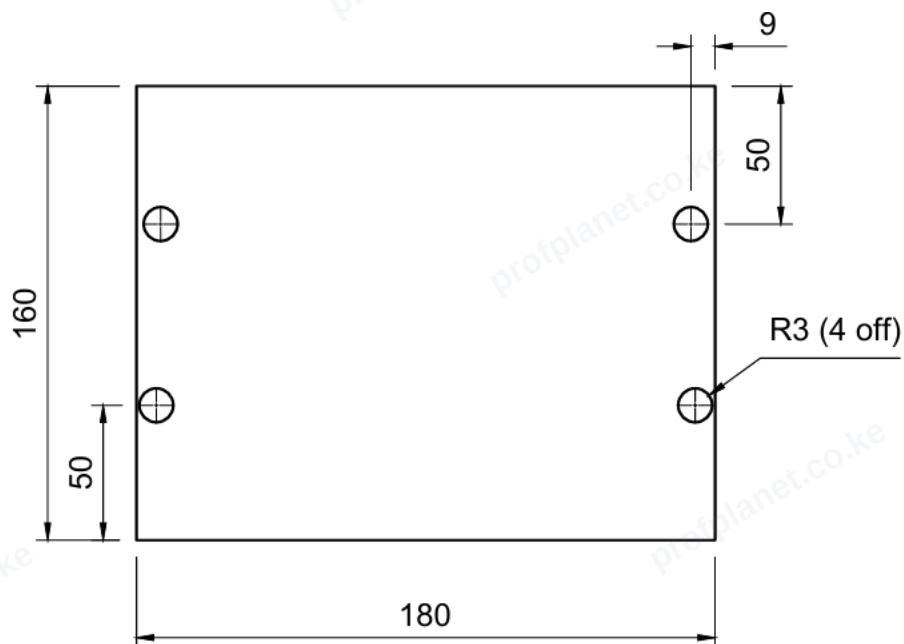


pattern development of sides

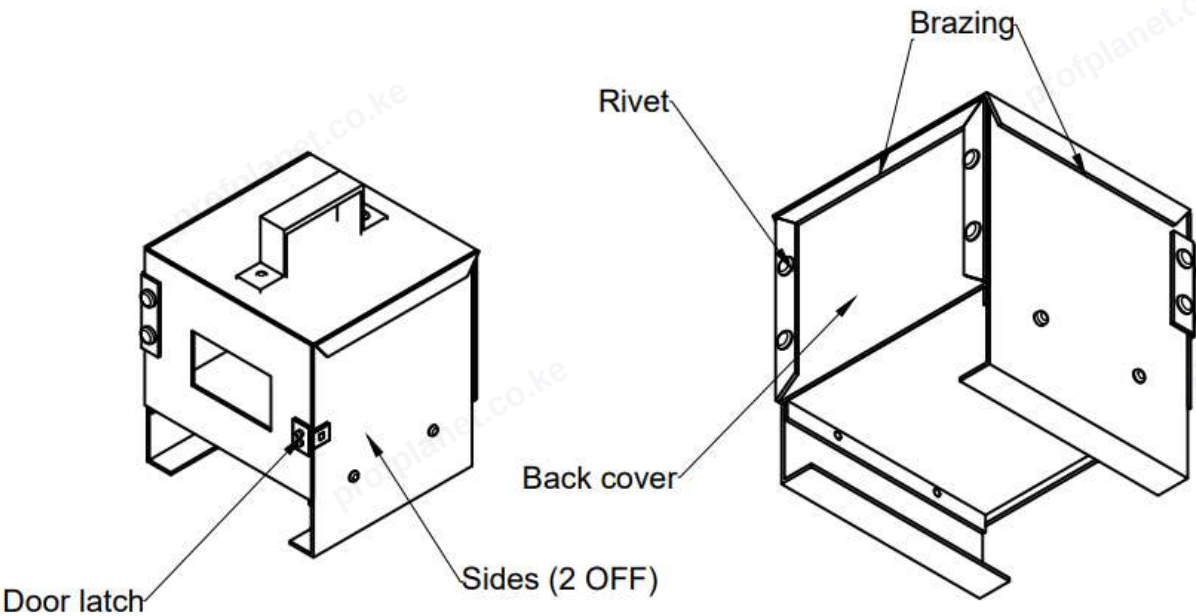
Top cover



e. Back cover

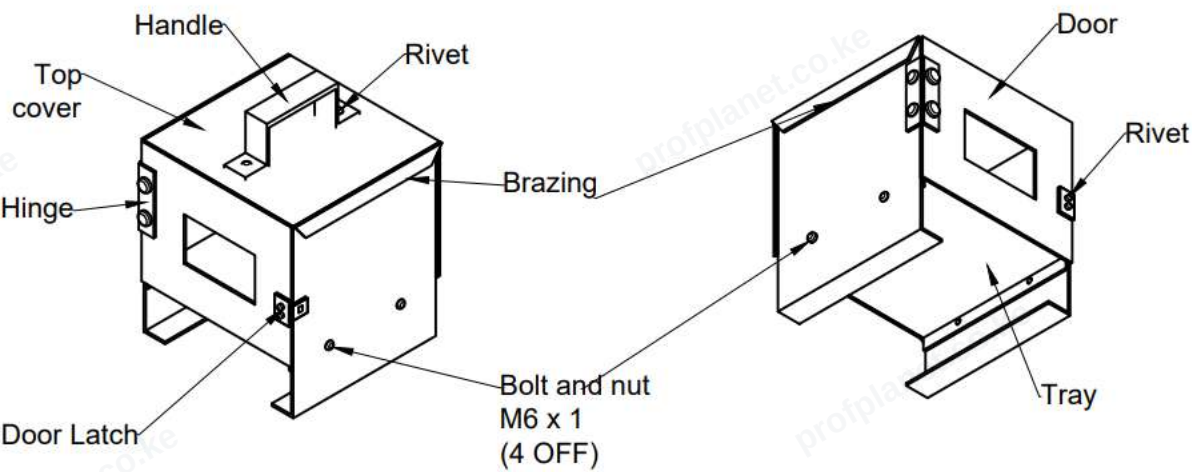


ASSEMBLY VIEW 1



ASS

2



APPENDIX 1:**Candidate's Inspection Checklist for the Finished Work****All Dimensions in (mm)**

S/No	Basic Dimensions Tolerance ± 0.1	Candidate Measurements	Assessor's Measurement	deviations
1. Development				
a. Linear dimensions				
i)	Tray			
1.	200			
2.	180			
ii)	Door			
3.	170			
4.	80			
5.	50			
iii)	Handle			
6.	100			
iv)	Sides			
7.	200(2)			
8.	230(2)			
v)	Back cover			
9.	170			
10.	180			
vi)	Top Cover			
11.	170			
12.	180			

This is the last printed page