

071505T4MTP

MECHANICAL PRODUCTION TECHNICIAN LEVEL 5

ENG/OS/ME/CR/01/5/A

FABRICATE SHEET METAL PARTS

March/April 2025



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

PRA SSMENT

Time: 6 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks:
 - i. Prepare the **operation plan** as per the working drawing;
 - ii. Produce the component as per the working drawing and prepared operation plan;
 - iii. Inspect and fill the inspection checklist (***Candidate's Inspection Checklist for the Finished Work*** provided in Appendix 1).

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

➤ Galvanized sheet metal gauge 22

- 390 × 340
- 170 × 140 (2 off)

➤ Mild steel rod

- Ø 6 × 325

➤ Drilling machine

➤ Drill bit Ø 6

➤ Straight tinman snips

➤ Hacksaw

➤ Gas welding equipment

➤ Brazing rods

➤ Brazing flux

➤ Scriber

➤ Steel rule

➤ Tape measure

➤ Divider

➤ Centre punch

➤ Engineers' Try Square

➤ Bench Vice

➤ Rubber mallet

➤ Wire brush

➤ Ball peen hammer

➤ Assorted files

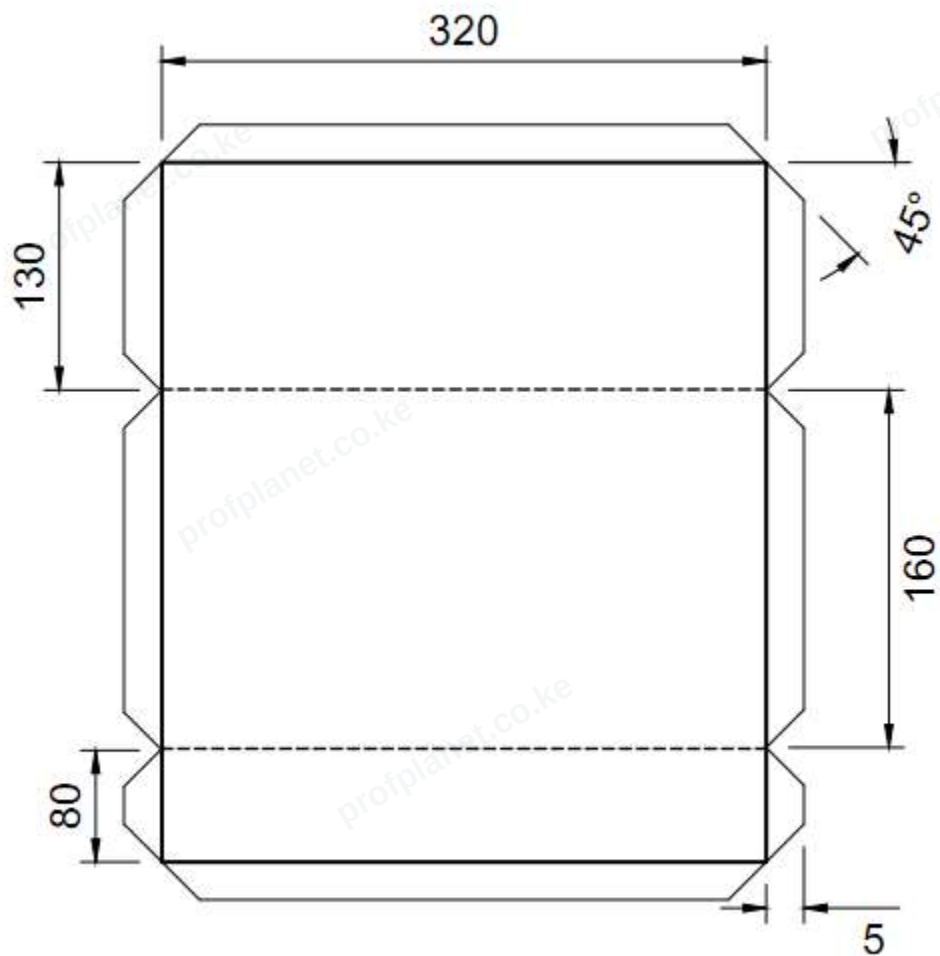
➤ Cleaning broom

➤ Cotton waste

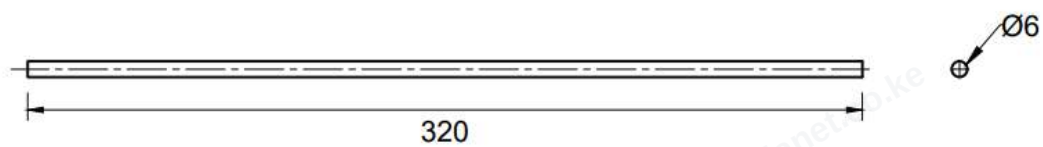
➤ Leather gloves

➤ Clear gas welding goggles

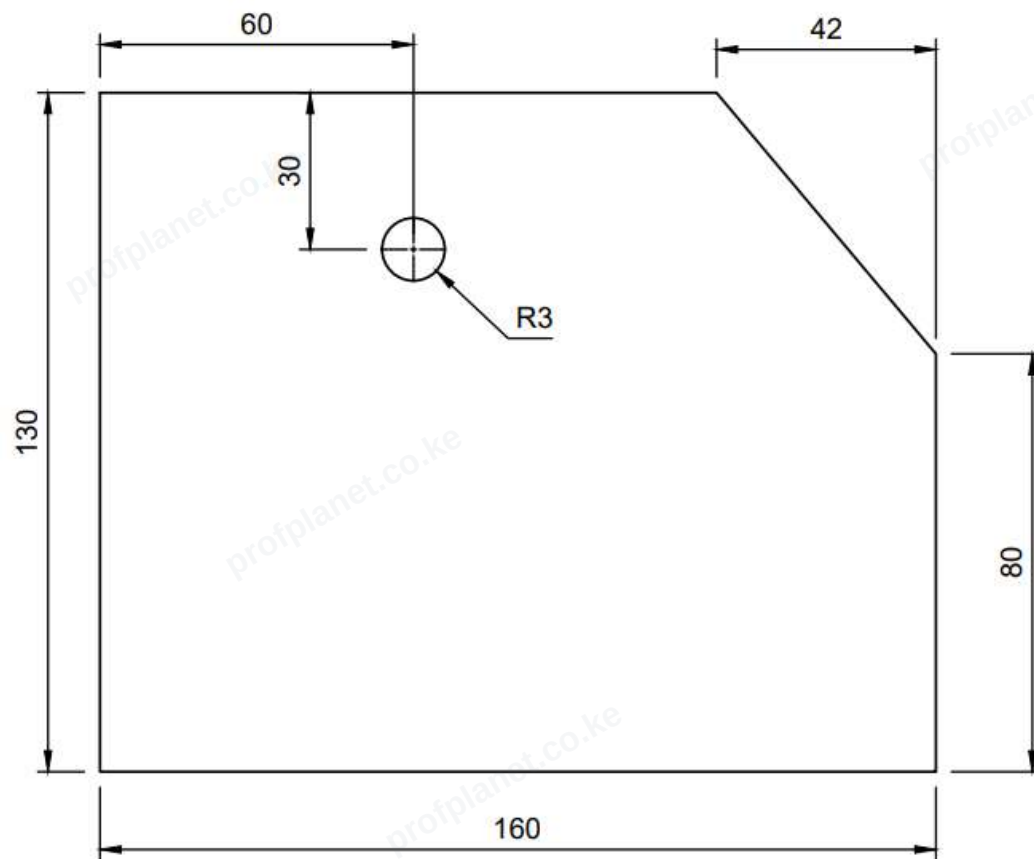
PART 1: BODY



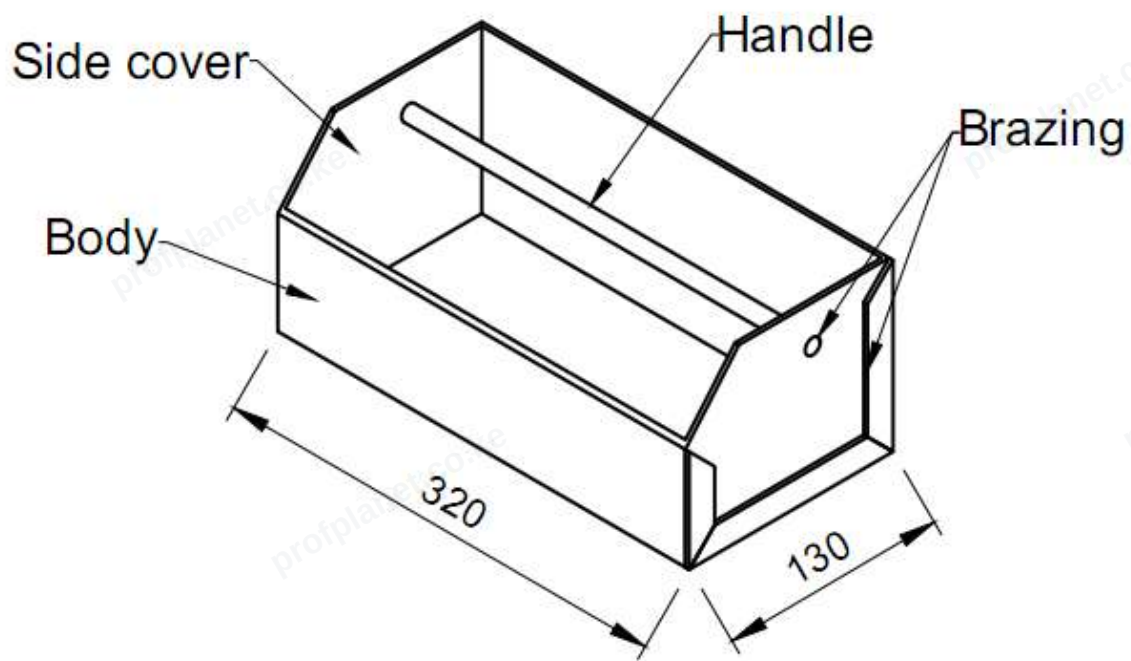
PART 2: HANDLE



PART 3: SIDES (2 OFF)



ASSEMBLY



NOTE

- **All Dimensions are in mm**
- **Tolerance**
Workpiece preparation ± 0.5 mm
Finished product ± 1.0 mm

APPENDIX 1. INSPECTION CHECKLIST

No	Basic Dimensions All dimensions are in mm Tolerance ± 0.5	Candidate measurements	Deviations
	PART 1. BODY		
1.	370		
2.	320		
	PART 2. HANDLE		
3.	320		
	PART 3. SIDE COVER		
4.	160		
5.	130		
6.	80		