



**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
**General Certificate of Education Ordinary Level**

**METAL TECHNOLOGY AND DESIGN**

**4055/2**

PAPER 2 Practical Test

**SPECIMEN PAPER**

3 hours 10 minutes

Additional materials:  
As listed in the Instructions to Supervisors.

**TIME** 3hours 10 minutes

**INSTRUCTIONS TO CANDIDATES**

Please see page 2.

**INFORMATION FOR CANDIDATES**

**All** dimensions are in millimetres.

Drawings are **not** to scale.

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**This specimen paper consists of 3 printed pages and an insert.**

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## INFORMATION TO CANDIDATES

### Instructions to Candidates

From the materials supplied, you are required to make a **car roof rack clip** shown in the drawing in **Fig. 1** on page 4. Modifications have been made for examination purposes only.

Dimensions **not** given are left to your discretion.

**All dimensions are in millimetres.**

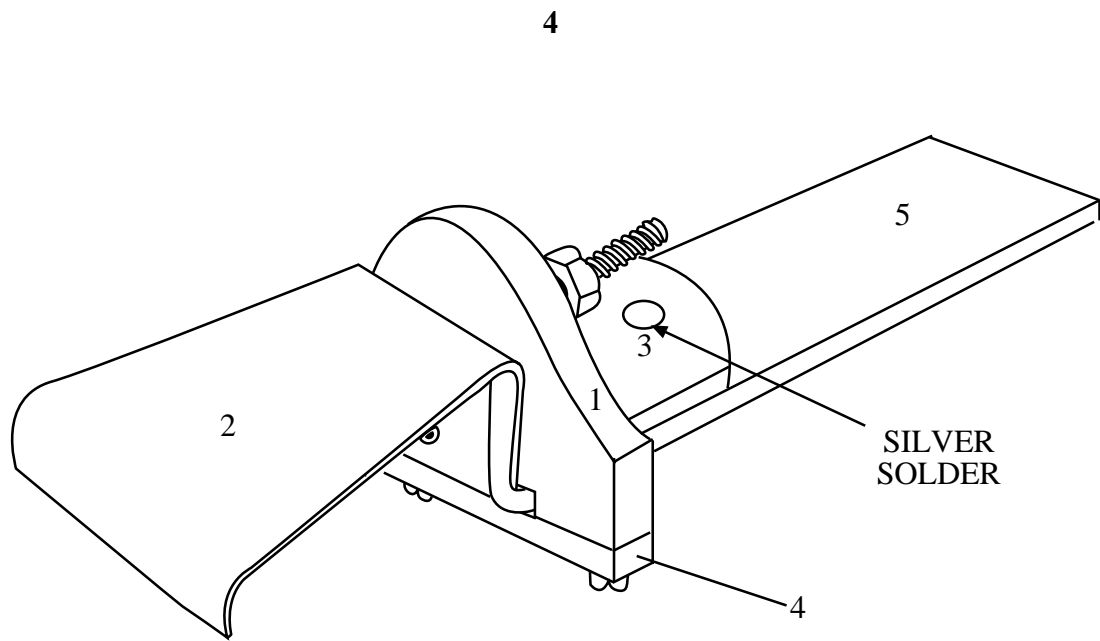
- A second supply of material is **not** allowed. If you make a mistake, do your best to work as near to the given measurements as possible.
- All heated parts should **not** be quenched in water or oil but should be left to cool down slowly.
- Any dimensions **not** given are left to your own discretion.
- Attempt to complete all the work, but remember that a partly completed piece of good quality work may gain more marks than a piece of work that is complete, but poorly finished and inaccurate.
- Clean **all** pieces by drawfiling the edges. **Do not** use emery cloth or similar material.

The following materials are required:

- |                      |   |
|----------------------|---|
| <b>Part 1</b>        | <b>One piece 40 mm × 25 mm × 10 mm</b> BDMS/cleaned BMS, <b>both</b> ends squared,  |
| <b>Part 2</b>        | <b>One piece 85 mm × 30 mm × 2 mm</b> BDMS/cleaned BMS, with <b>both</b> ends squared,                                      |
| <b>Part 3</b>        | <b>One piece 65 mm × 20 mm × 3 mm</b> MS/BDMS/cleaned BMS, ( <b>both</b> ends squared) and prepared before the examination, |
| <b>Part 4</b>        | <b>One piece 40 mm × 10 mm × 3 mm</b> MS/BDMS/cleaned BMS, <b>both</b> ends squared,  |
| <b>Part 5</b>        | <b>One piece 70 mm × 20 mm × 3 mm</b> MS/BDMS/cleaned BMS prepared before the examination,                                  |
| <b>Part 6</b><br>the | <b>One piece Ø6 × 10 mm</b> length MS/BDMS both ends squared. Prepared before the examination.                              |

**Assembly Procedure**

1. Rivet **Part 4** to **Part 5** before marking and fitting **Part 1** and 4 together.
2. Use a former for bending **Part 2**
3. Use **M5** screws joining **Part 1** to **Part 4**
4. Silver solder **Part 5** to **Part 3**.
5. Join **part 2**, **Part 1** and **Part 3** using **M6** bolt and **nut**.

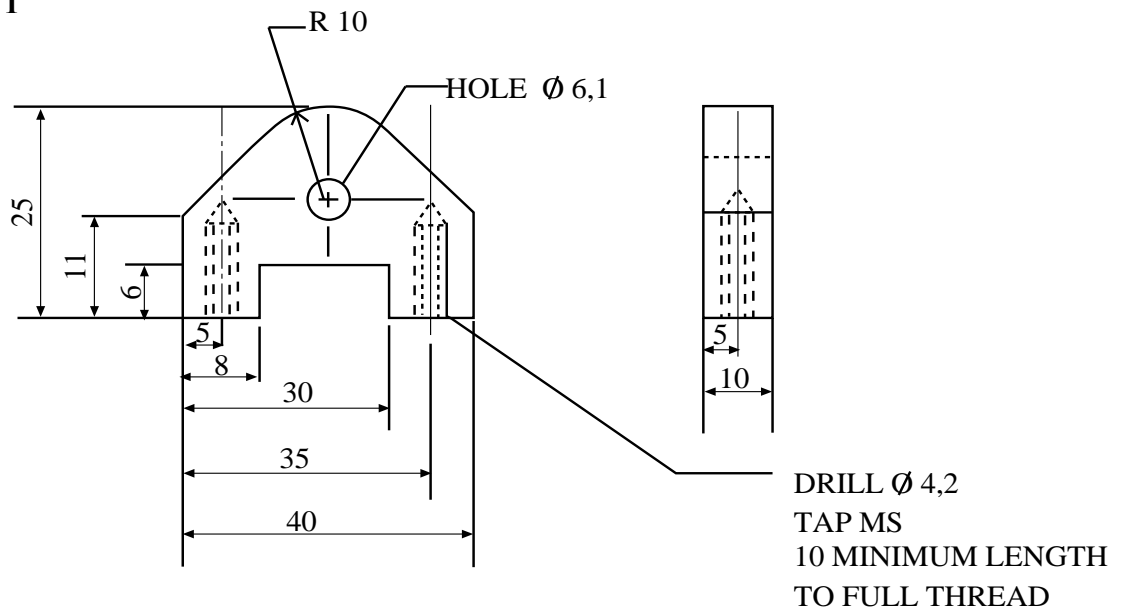


**CAR ROOF RACK CLIP**

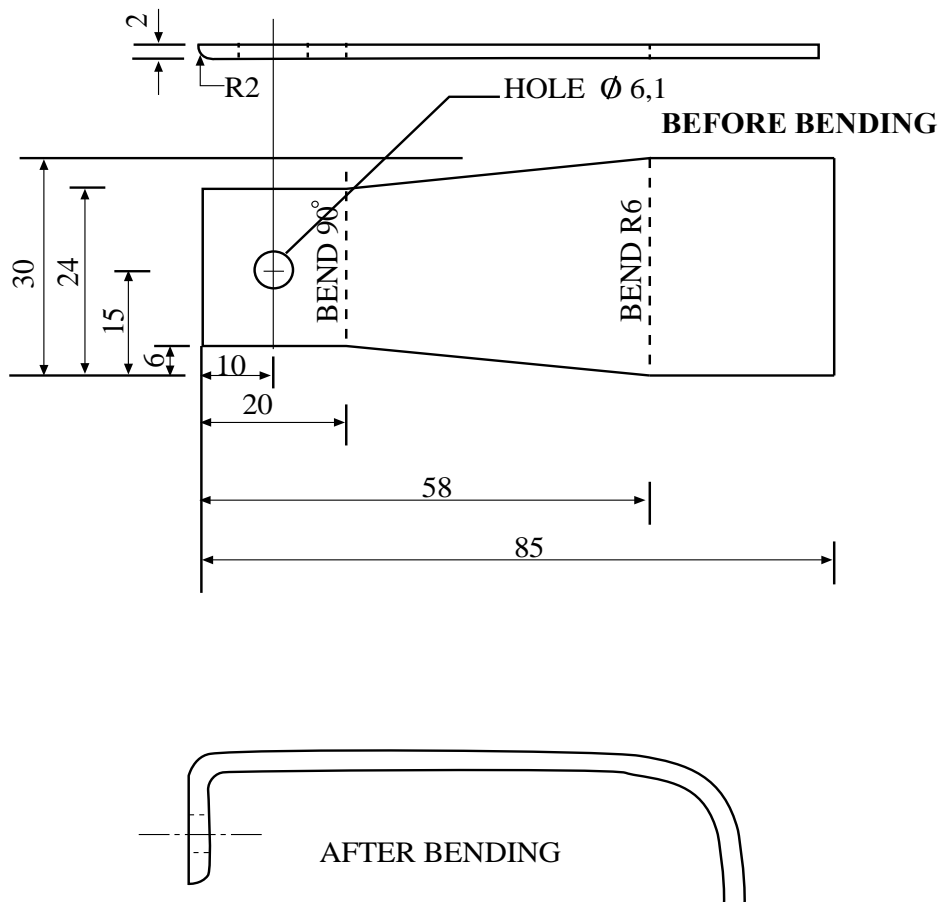
**Fig. 1**

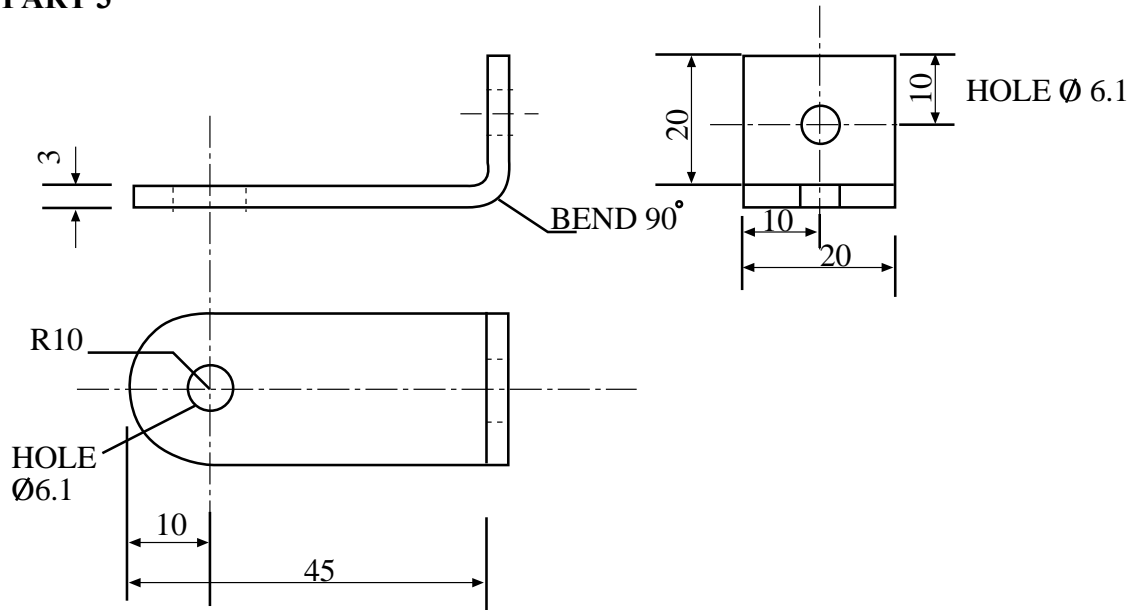
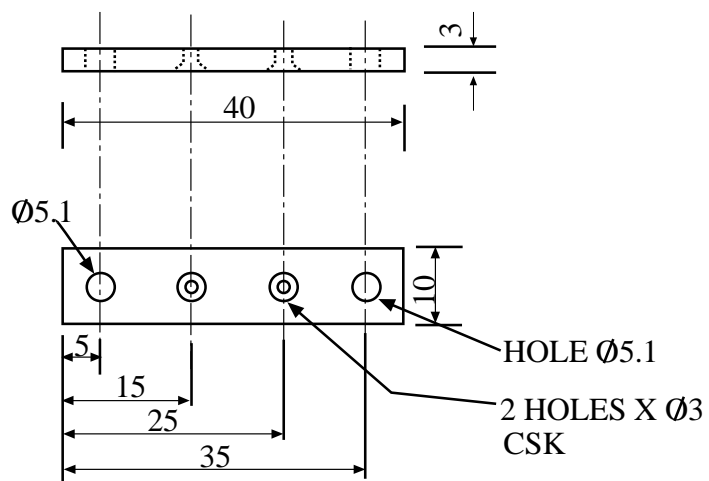
5

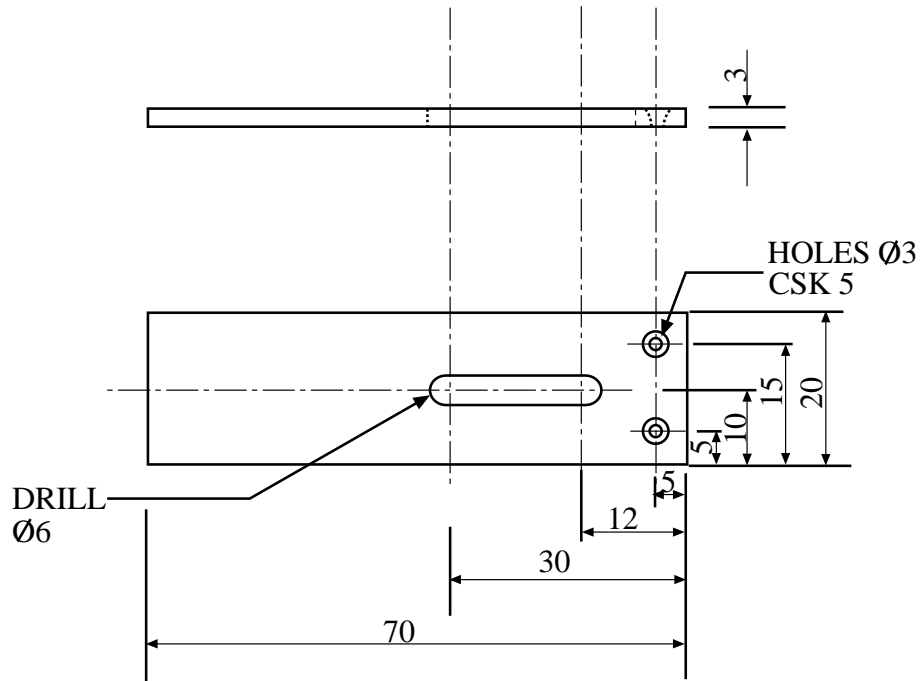
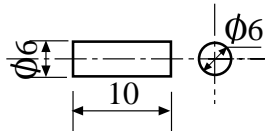
## PART 1



### PART 2( Before Bending)



**PART 3****PART 4**

**PART 5****PART 6**

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