



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Ordinary Level

---

**METALWORK**

**6040/02**

Paper 2 Practical Test

**October/November 2009**

**3 hours**

Additional Materials: As listed in the Confidential Instructions

---

**READ THESE INSTRUCTIONS FIRST**

Please see page 2.

All dimensions are in millimetres unless stated otherwise.



---

This document consists of **4** printed pages and **2** blank pages.



From the materials supplied you are to make the JEWELLERY VICE shown in the drawings.

All dimensions are in millimetres.

The following materials are supplied:

Part 1 One piece BDMS  $12 \times 12 \times 80$  long. Both ends square.

Part 2 One piece BDMS  $50 \times 5 \times 60$  long. Both ends square.

Part 3 One piece BDMS  $20 \times 3 \times 152$  long. One end square.

Part 4 One piece BDMS  $\text{Ø}6 \times 100$  long. Prepared prior to the examination.

Part 5 One piece BDMS  $15 \times 5 \times 40$  long. Both ends square.

Part 6 One piece BDMS  $15 \times 5 \times 40$  long. Both ends square.

Part 7 One piece BDMS  $10 \times 1.5 \times 20$  long. Both ends square.

Two  $\text{Ø}3 \times 12$  long countersunk head steel rivets.

Two  $\text{M}6 \times 12$  long cheese head or round head steel screws.

Two tie on labels.

### Notes

#### Working Procedures

- A The square hole in Part 2 should be chamfered slightly on the underside so that the square spigot on Part 1 can be riveted over to secure it in place.
- B Part 3 should be bent and then riveted to Part 2 using the countersunk head rivets provided. The ends of the rivets should be shaped with a rivet snap.
- C Part 7 should be shaped so that it is comfortable to use.
- D The slot in the head of one of the  $\text{M}6 \times 12$  long screws needs to be widened so that Part 7 can be silver soldered in place.
- E Shape the top of Part 1 so that it is not dangerous to the user.

#### General Notes

- A second supply of material is **not** allowed. If you make a mistake, do your best to work as near to the dimensions given in the drawings as possible.
- Any dimensions omitted are left to your discretion.
- Attempt to complete the work but remember that a partly completed piece of work of good quality may gain more marks than one which is complete but inaccurate or poorly finished.
- Clean up all parts by draw filing. Emery cloth or similar must not be used.
- Write your **name and examination number** on both labels supplied, attach one to your work and the other to the bag in which your work is enclosed. Put all worked and unworked materials into the bag, with the exception of waste.

**BLANK PAGE**

**FOLD OUT THIS PAGE**

**BLANK PAGE**

---

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.