ZIMSEC
For Performance Measurement

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Ordinary Level

METAL TECHNOLOGY AND DESIGN 4055/1, 4055/2

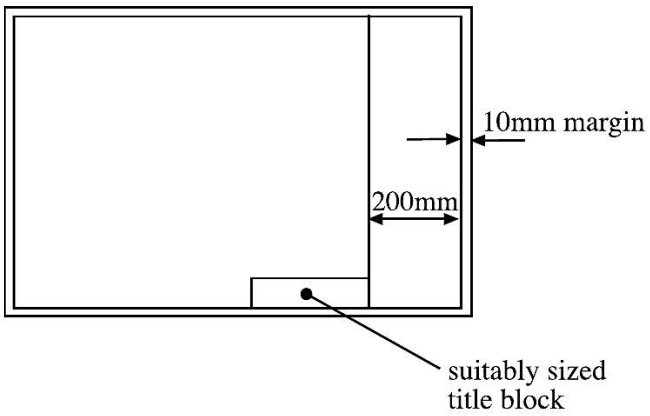
INSTRUCTIONS TO SUPERVISORS

SPECIMEN PAPER

ADVANCE INFORMATION

PAPER 1 THEORY, DRAWING AND DESIGN

Each candidate will require drawing instruments and **one** piece of good quality **A2** drawing paper. This should be ruled out before the examination as shown below.



These Advance Instructions consist of 4 printed pages.

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4055/2 PRACTICAL TEST

Instructions to Supervisors

Please note that **all** the materials, tools and equipment required for this test are to be provided by the centre. They **will not** be provided by the Zimbabwe School Examinations Council.

Candidates must **not** be allowed a second supply of materials.

No assistance or information other than that printed in the question paper is to be given to any candidate.

No machine may be used, other than a drilling machine, **except** when a lathe for turning work is specified. **All** materials cut to length are to be left from the saw unless instructed otherwise.

N.B. The reduction of material to examination requirements and the preparation of special tools or parts must be undertaken by the candidates **before** the examination. Failure to prepare material as specified will seriously handicap candidates.

Each candidate should be supplied with the materials listed below.

If Bright Drawn Mild Steel (BDMS) is not available, Black Mild Steel (BMS) will be acceptable, but all surfaces and edges should be cleaned.

All dimensions are in millimetres.

For making Car Roof Rack Clip the following materials are required:

Part 1: **ONE** piece **40 mm × 25 mm × 10 mm** MS/BDMS/cleaned BMS (both ends squared),

Part 2: **ONE** piece **85 mm × 30 mm × 2 mm** MS/BDMS/cleaned BMS, (both ends squared),

Part 3: **ONE** piece **65 mm×20 mm × 3 mm** MS/BDMS/cleaned BMS, (both ends squared),

Part 4: **ONE** piece **40 mm × 10 mm ×3 mm** MS/BDMS/cleaned BMS, (both ends squared),

Part 5: **ONE** piece **70 mm × 20 mm × 3 mm** MS/BDMS both ends squared

Part 6: **ONE** piece ϕ **6 × 10 mm** × length MS/BDMS both ends squared

See Fig.1 below for materials prepared before exam.

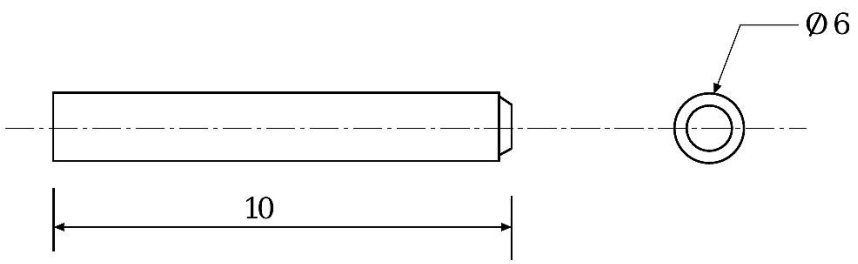


Fig.1

Instructions to Supervisors

Accessories

Each candidate will require:

(a) **(i)** $\phi 3 \times$ 20 mm snap head rivet x 2

(ii) M5 x 10 machine cheese head screw x 2

(iii) M6 Nut x 1

(iv) M6 x 30 mm long bolt in any suitable material

Every four candidates will require

(b) **(i)** $\phi 3$ drill bit
$\phi 42$ drill bit
$\phi 5.1$ drill bit
$\phi 6$ drill bit
$\phi 6.1$ drill bit

(ii) Warding file 150 mm

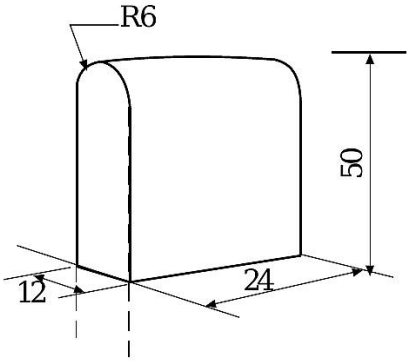


Fig.2

(iii) Countersink bit

(iv) Former R6

(v) Silver solder enough for one joint

Every candidate will also require:

One strong plastic bag in which to enclose the work,

Two tie-on labels

Every workshop will require:

Oxy-acetyline gas set/ handigas set,

Pillar drilling machine / had-drill/ electric hand drill