

Institute of Sheet Metal Engineering

SHEET METAL SKILLS COMPETITION

25th JUNE 2008



JAGUAR

Sponsored by



The Metalforming Machinery
Makers' Association

The Competition

The Institute of Sheet Metal Engineering in co-operation with Jaguar Cars Limited and the Metalforming Machinery Makers' Association will be holding the 2008 Competition at the Jaguar Visitor Centre, Castle Bromwich, Birmingham on the 25th June 2008.

The Sheet Metal Skills Competition provides a great opportunity for young people to measure their skills against others in the sheet metal industry. **There will be two classes for entry - the OPEN CLASS and the TEST PIECE CLASS.** There are cash prizes for the winners of each Test Piece Class and the Open Class. In addition, the Technical Merit Award for written work will also include a cash prize. The OVERALL WINNER of the competition will be awarded the **ISME Trophy** that they retain for one year.

Entrants are encouraged to compete in both classes, but may decide that they wish to enter only one class. However, to qualify to be judged as the OVERALL WINNER holding the ISME Trophy for one year, the contestant must enter both classes.

The Metalforming Machinery Makers' Association will again present the 'MMA Trophy' for the item that shows the best use of metalforming machinery in the manufacture of the component.

The contest will require entrants in the Test Piece Class to submit a set piece in the form of a piece of ducting as per the enclosed drawing and in accordance with the requirements given on the following page. For the Open Class they should make another article of their own choice, which must be made mainly of any sheet metal but may also contain other materials. Past entries in the Open class have included a wide range of objects including jewellery cases; rugby ball, cars, aeroplanes, musical instruments, toolboxes and watering cans are examples.

Please encourage your young people to enter this competition. There is no restriction on the number of entries that an individual can submit and they may enter both the Test Piece and Open Class contests.

To enter the competition, please complete the Entry Form on the inside back cover of this brochure. Please complete an Entry Form for each entrant (photocopies are acceptable) and return to ISME at the earliest date.

ISME TROPHY

To be judged as the OVERALL WINNER holding the ISME TROPHY for one year the contestant must enter both classes.



METALFORMING MACHINERY MAKERS' ASSOCIATION TROPHY

Awarded for the Open Class Entry that best demonstrates the use of metalforming machinery in the manufacture of the component.

The winner will retain the Trophy.



TEST PIECE CLASS

Ducting

- Component: See drawing
- Material: Mild Steel (if the entrant normally works in another material e.g. aluminium, titanium, such material maybe used, BUT the reason must be clearly noted and commented on in the written work).
- Thickness: 0,9 - 1,2 mm
- All dimensions are to the outside of material.
- The competitor may choose the method of fabrication.
- The fabrication must consist of a minimum of three (3) or a maximum of seven (7) individual pieces. These may be joined together by any method.
- The entrant should include a written account on how and why the various techniques were chosen and applied. Additional credits will be given for legible handwritten scripts.
- The test piece will be judged and marked on the following:
 1. Dimensional accuracy
 2. Finish
 3. Written work
 4. Suitability of seams and joints
 5. Quality of workmanship

Credit will be given when a competitor uses several methods of seams/joints. Measurement of dimensions will ignore where exterior lock-seams and safe edges project beyond the normal surface.

There are **three age sections** in this class:

1. 16 years old
2. 17 - 18 years old
3. 19 years and over

The age of the entrant on 1st January 2008 should be stated on the entry form.

All entries should be clearly labelled with the competitor's name and date of birth.

The winner of each age section will receive a cash prize and a certificate. The written work will be eligible for the Technical Merit Award, which also carries a cash prize and a certificate.



OPEN CLASS

This class is open to all competitors of any age. There are no restrictions on the design of the work piece nor on the materials used, the only stipulation being that the piece uses sheet metal as the principal material.

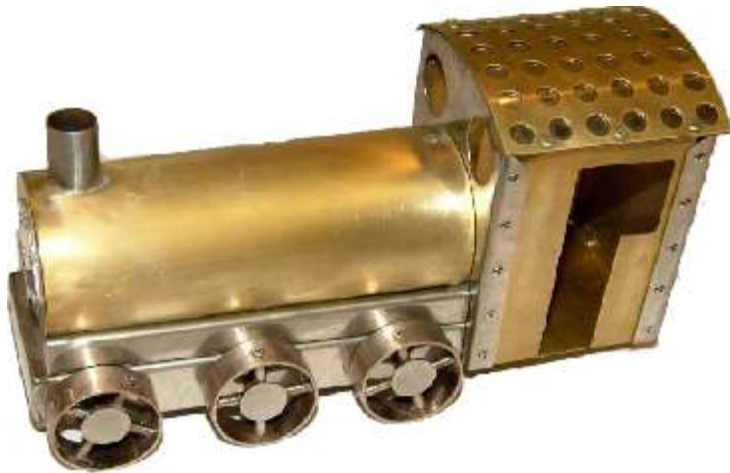
For the Open Class they should make another article of their own choice, which must be made mainly of any sheet metal but may also contain other materials.

Size of the work piece is entirely the choice of the entrant and the work can be complex or simple.

Items are judged on the following criteria:

- Work content
- Quality of workmanship
- Finish
- Written Work
- Flair
- Degree of difficulty

All entries should be clearly labelled with the competitor's name and date of birth. The winner will receive a cash prize and a certificate. The written work, which should give details of how the competitor tackled the job and how they overcame difficulties, will be eligible for the Technical Merit Award, which also carries a cash Prize and certificate.

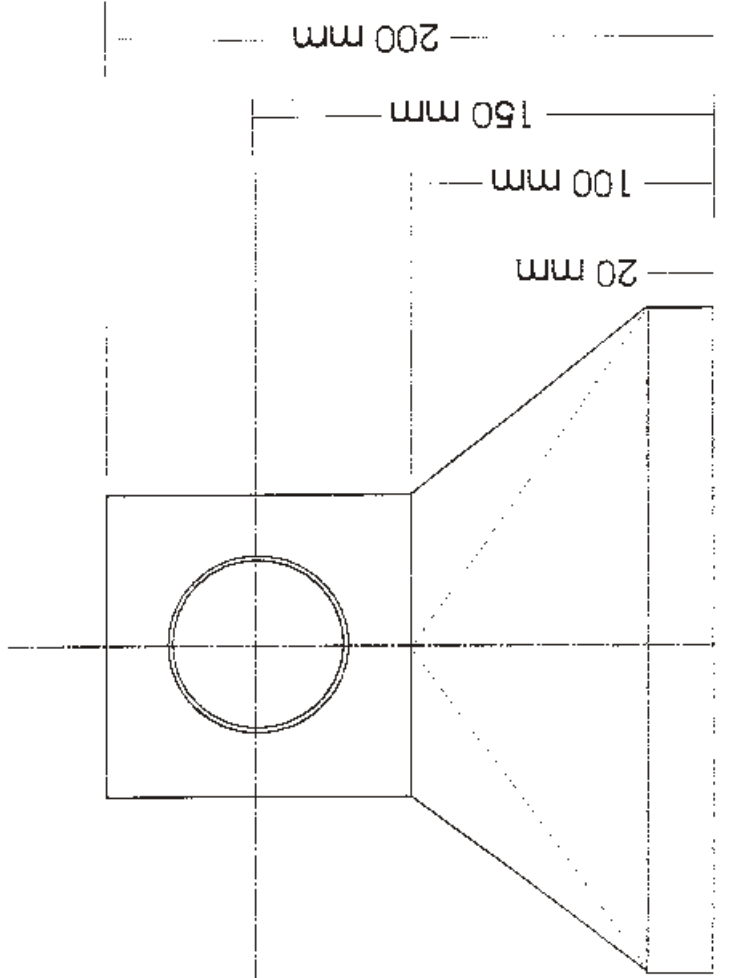
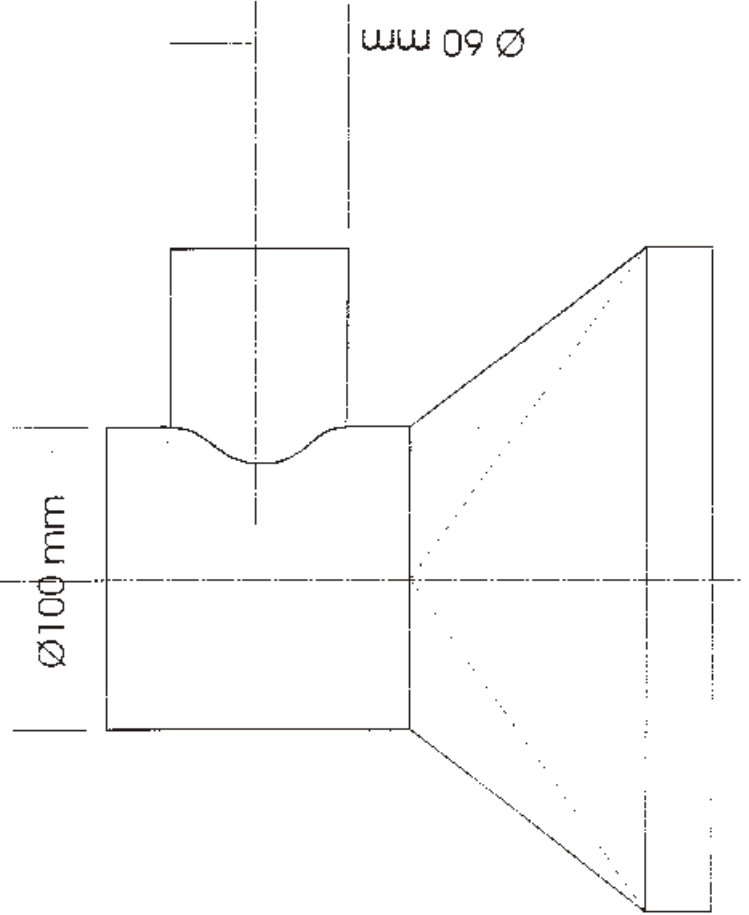
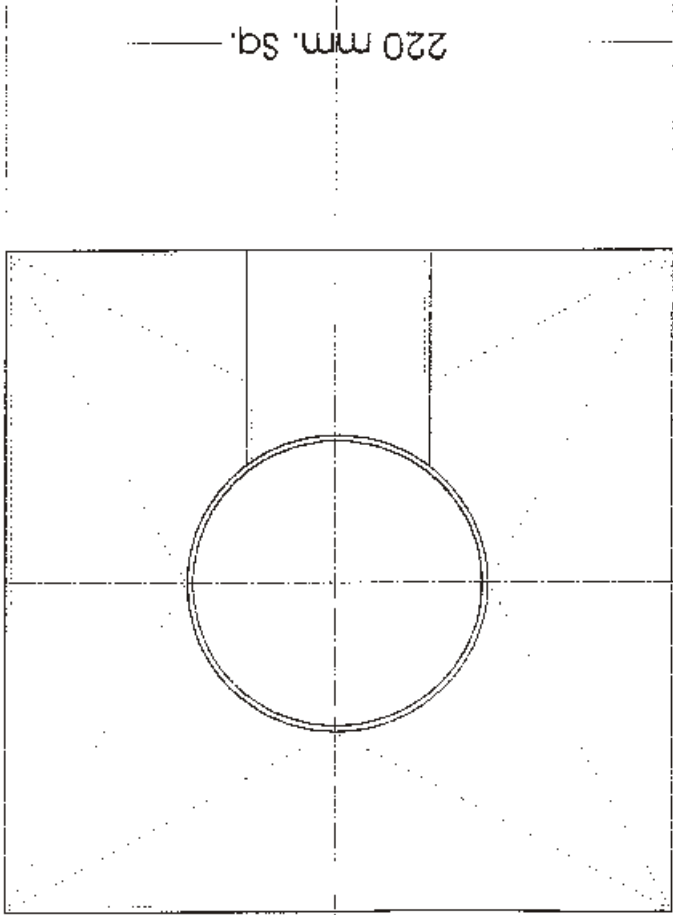


SET TEST PIECE

Material: Mild Steel
Thickness 0,9 - 1,2mm

The fabrication must consist of a minimum of THREE (3) or a maximum of SEVEN (7) individual pieces. These may be joined together by any method. The entrant should submit a written account stating the reason for deciding to split the fabrication in the chosen way and why the method of joining them was used.

The test piece will be judged on accuracy and workmanship.





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Sheet Metal Skills Competition

25th June 2008

Initial Sample Inspection Report

To be completed and submitted with Test Piece

Part Description: Ducting

Student Name:

Material: Mild Steel

Company/College:

Thickness: 0,9 – 1,2 mm

	Yes	No
Work piece made on production tooling		
Additional hand work performed		
Processed under production conditions		

Feature and Drawing Reference	Students Results	Judges Verification
1. 220mm sq		
2. Ø 100mm		
3. Ø 60mm		
4. 20mm		
5. 100mm		
6. 150mm		
7. 200mm		

Company/College:		ISME	
Approved by:		Judge 1:	
Position Held:		Judge 2:	
Date:		Judge 3:	



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ENTRY FORM

Please complete and return one form for each entrant.

Entrant's Name: _____

Date of Birth: _____

Award Class Entered (*tick boxes*)

Test Piece Class

Open Class

Age at 1st January 2008 _____

Training Establishment / Employer _____

Contact Name at
Training Establishment / Employer _____

Address: _____

Telephone: _____ Fax _____

e-mail: _____

Please return this form ASAP to:

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PO Box 2242
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The Institute of Sheet Metal Engineering

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