

Tuesday 25 June 2013 – Afternoon

GCSE MANUFACTURING

B234/02 Impact of Modern Technologies on Manufacturing

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- Your Quality of Written Communication will be assessed in questions marked with an asterisk (*).
- This document consists of **8** pages. Any blank pages are indicated.

1 Manufacturing sectors produce different products.

(a) Complete the links below to identify which manufacturing sector makes the products listed.

Manufacturing Sector	Product
Packaging	Hat
Paper and print	Security light
Electrical	Desk
Motor manufacturing	Business card
Food and drink	Milk carton
Clothing and textiles	Cereal bar
Furniture	Alloy wheel

[7]

(b) Select **one** product from the list.

Product

State **one** modern technology used in the manufacture of that product.

..... [1]

(c) State **one** sector not in the list above and give an example of a product from that sector.

Sector [1]

Product [1]

2 (a) Name **two** materials that are commonly recycled.

1

2 [2]

(b) Describe **two** factors that should be considered when disposing of waste materials.

1

.....

.....

2

.....

..... [4]

3 Describe the impact of modern technologies on each of the following:

training

.....

..... [2]

product variety

.....

..... [2]

material selection

.....

..... [2]

4 (a) Give **three** factors that need to be considered when using 'standard components' in manufactured products.

1

.....

2

.....

3

.....

[3]

(b) Give **three** disadvantages of buying a component from another company.

1

.....

2

.....

3

.....

[3]

(c) Explain what is meant by the term 'complexity reduction'.

.....

.....

.....

..... [3]

5 One machine in a production line runs slower than the rest of the machines.

(a) (i) What term is used to describe this type of 'waste'

..... [1]

(ii) Explain how the production line could be affected.

.....
.....
.....
..... [3]

(b) Modern technologies are often used to improve manufacturing processes.

Describe **two** factors which should be considered when selecting a modern technology to improve a process.

1

.....

.....

2

.....

.....

[4]

6 Describe **three** factors that should be considered by a team when producing a batch of products.

1
.....
..... [2]

2
.....
..... [2]

3
.....
..... [2]

7 Explain, using examples, how the following issues could affect a manufacturing company's image.

noise
.....
..... [3]

transport
.....
..... [3]

employment
.....
..... [3]

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