5.6 The impact of technology on operations: 10-minute Pack

Total Marks

AQA 8132 · Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions in the spaces provided. Show your working for any calculation: method marks are available even if your final answer is wrong. Silverdale Precision Engineering, used throughout this pack, is a fictional business.

1 Which one of the following is an example of automation in a business's operations?

- ☐ A) A machine that carries out a production task, such as cutting a component, with little or no human operator input
- ☐ B) A poster advertising a new product
- ☐ C) A worker completing a task entirely by hand with no machinery at all
- ☐ D) A customer paying for goods in cash

(Total for Question 1 is 1 mark)

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2 State two benefits of computer-aided stock control that would suit Silverdale as it automates more of its production.

(Total for Question 2 is 2 marks)

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3 Which one of the following best describes a benefit of computer-aided stock control?

- ☐ A) It removes the need for a business to ever hold any stock at all
- ☐ B) It updates stock records automatically as items are used, reducing manual counting errors and helping trigger reorders on time
- ☐ C) It guarantees a supplier will never deliver late
- ☐ D) It sets a business's prices automatically without any manager input

(Total for Question 3 is 1 mark)

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4 State two examples of technology used in modern manufacturing operations.

(Total for Question 4 is 2 marks)

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Mark scheme · 5.6 The impact of technology on operations: 10-minute Pack

Question 1

A cao **B1**

Answer: A

Question 2

one acceptable benefit, e.g. stock levels of raw material are updated automatically and accurately as components are cut **B1**

a second acceptable benefit, e.g. automatic alerts when stock reaches the reorder level, or fewer errors than manual stock-taking **B1**

Answer: Any two, e.g. automatic, accurate stock updates as material is used; automatic reorder alerts; fewer manual counting errors.

Question 3

B cao **B1**

Answer: B

Question 4

one acceptable example, e.g. computer-aided design (CAD) or computer-aided manufacture (CAM) **B1**

a second acceptable example, e.g. robotics/automated machinery, computer-aided stock control, or 3D printing **B1**

Answer: Any two, e.g. CAD/CAM; robotics; computer-aided stock control; 3D printing.

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