2.5 Lean Production: Just-in-Time, Kaizen and Time-Based Management: 10-minute Pack

AQA 7132 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions in the spaces provided. Show working for calculations. GreenTech Bikes, used throughout this pack, is a fictional UK business.

1 Identify one risk to GreenTech Bikes of operating with very low inventory under a JIT system.

(Total for Question 1 is 1 mark)

2 Identify one example of a kanban signal GreenTech Bikes could use on its assembly line.

(Total for Question 2 is 1 mark)

3 State two operational benefits to GreenTech Bikes of using JIT stock control on its assembly line.

(Total for Question 3 is 2 marks)

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4 GreenTech Bikes wants to reduce the time from prototype to customer delivery. Identify one example of a time-based management technique the business might use.

(Total for Question 4 is 1 mark)

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5 Explain one operational benefit to GreenTech Bikes of using kanban cards on its production line.

(Total for Question 5 is 3 marks)

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Mark scheme · 2.5 Lean Production: Just-in-Time, Kaizen and Time-Based Management: 10-minute Pack

Question 1

supply chain disruption could stop production because there is no buffer stock — **B1**

Answer: Supply chain disruption could halt production because there is no buffer stock.

Question 2

a coloured card, a barcode scan, or an empty bin used as a signal (any one) — **B1**

Answer: A coloured card, a barcode scan or an empty bin used as a signal.

Question 3

lower stockholding costs, because less capital is tied up in inventory — **B1**

reduced waste or lower risk of obsolete parts, since parts are held for shorter periods — **B1**

Answer: Lower stockholding costs; reduced waste or lower risk of obsolete parts.

Question 4

mass customisation, parallel processing of tasks, or reducing setup times (any one) — **B1**

Answer: Mass customisation or parallel processing of tasks or reducing setup times.

Question 5

identifies a benefit, for example clearer signalling of when parts are needed — **B1**

develops the point, for example reducing overproduction and avoiding excess batches — **B1**

links to an operational outcome, for example smoother flow on the line and lower inventory levels — **B1**

Answer: Kanban provides clearer signalling of when parts are needed, reducing overproduction and avoiding excess batches, which leads to a smoother production flow and lower inventory levels.

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