Unit 5.3. Lean production and quality management [HL Only]

Task 1: Complete the missing words

				ke certain that quality standard
are met to ensi	ure customer	QA is used by a	business to give customers	greater confidence in the
quality of the p	products that they buy fr	om the firm. A firm th	at is able to meet QA stand	lards will publicise this, usually
with the use of	f international quality ass	surance trademarks, su	ıch as ISO	
(a prod	luction system that remov	ves the need to use but		ation of waste) andand components delivered lives all members of an
				hilosophy is known as
	erm for 'change for the be			
One other way	y used by businesses to m	anage quality is by co	mparing their practices or	performance indicators with
those of the be	est in the industry. This n	nethod is known as		(BPB), or simply
'benchmarking	g' for short. BPB is as a co	ontinuous process in c	organizations that make eve	ery effort to achieve quality
accurance				

Task 2: True or false?

		True/False
a.	Quality means that a product is high-class and one of the best in its industry, such as Rolls Royce cars or Rolex watches.	
b.	Quality is a source of global competitiveness.	
с.	Poor quality means that a firm's prices are higher than the industry average.	
d.	Lean production is the process of streamlining operations management to reduce all forms of waste and to achieve greater efficiency.	
e.	Andon is a lean production method that uses a visual control system to indicate the status of an aspect of the production process.	
f.	Kanban is a lean production method that uses a card system with an inventory number attached to each component in the production process.	
g.	Cradle to cradle manufacturing is a sustainability model of production, based on natural processes which benefit the natural environment.	
h.	Kaizen and zero defects are central principles of any total quality culture.	
i.	The 'Kitemark' is a quality assurance standard recognised throughout the world.	
j.	An objective of quality assurance is to reduce the need for huge research and development spending.	
k.	The implementation of total quality management tends to reduce the level of employee motivation.	
I.	Kaizen usually involves the implementation of quality circles.	

Task 3: Explanations

i.	Poor customer service at the cinema
	A laptop that keeps breaking down
	Food that is overcooked in a restaurant
_	blain which of the following is least likely to be a measure of quality. Reliability
В.	Staff turnover
о. С.	Safety
D.	Efficiency
Exp	plain two costs to a firm that strives to achieve quality assurance.
Exp cer	plain two advantages to a washing machine manufacturer that is accredited with international quality stand tification such as the ISO 9000.

Task 4: Multiple choice

- 1. Which of the reasons below does not explain why quality is important to a business?
 - A. Quality is essential in order to satisfy customers
 - **B.** Quality can provide a competitive advantage to the business
 - **C.** Quality raises the confidence level of customers
 - D. Quality means less stress to employees due to the reduced workload
- 2. A product that serves its purpose in fulfilling a customer's need or desire is known as
 - **A.** Fit for purpose
 - B. Quality management
 - C. Quality assurance
 - **D.** Lean production
- 3. The customer's perception of product quality is ultimately measured by
 - A. Price
 - B. Image
 - **C.** Value for money
 - D. Excellence
- **4.** The effect of substandard quality includes
 - A. Improved customer relations
 - B. Higher standards of customer services
 - C. Higher wastage levels
 - **D.** Lower costs of production
- 5. Which benefit does not apply to lean production?
 - A. Reduced costs of holding inventory
 - B. Fewer mistakes being made
 - C. Flexibility in meeting sudden changes in consumer demand
 - **D.** Improved quality assurance
- **6.** Which of the following is not a method of lean production?
 - A. Quality circles
 - B. Just-in-time production
 - C. Mass production
 - D. Kaizen

- 7. Which of the following is not a method of waste minimisation?
 - A. Total quality management
 - B. Cradle to cradle manufacturing
 - **C.** Just-in-time production
 - **D.** International quality standards
- 8. An essential feature of total quality management is
 - **A.** High production levels
 - B. Zero defects
 - C. Social responsibilities
 - D. Andon
- 9. The use of traditional methods to inspect quality against required standards is known as
 - A. Benchmarking
 - B. Quality control
 - C. Kanban
 - D. Scientific management
- 10. Which statement does not apply to kanban as a method of lean production?
 - A. It is Japanese for 'visual card'
 - **B.** Each item or component in the production process must have a kanban
 - **C.** It requires continuous improvement in the production process
 - **D.** It shows workers what is to be produced, how much of that item is to be produced and by when it needs to be produced