

APICS CPIM-ECO Exam

Volume: 105 Questions

Question No : 1

When attempting to understand whether there is a relationship between two variables, which quality control tool should be used?

- A. Pareto diagram
- B. Process flow diagram
- C. Scatter chart
- D. Cause-and-effect diagram

Answer: C

Question No : 2

Mixed-model scheduling results in which of the following benefits:

- A. Improved efficiency
- B. Less headcount required
- C. Lower finished goods inventory
- D. Increased forecast accuracy

Answer: C

Question No : 3

Which of the following project characteristics would suggest using the PERT technique, rather than the critical path method?

- A. Estimates of individual task times are probabilistic.
- B. Project tasks are backward scheduled.
- C. Due dates are needed to identify critical tasks.
- D. Project management can determine the critical path.

APICS CPIM-ECO Exam

Answer: A

Question No : 4

Which of the following benefits is a result of Standardized Work?

- A. Ergonomic repetitive movements
- B. Reduced quality checks
- C. Evolutionary operations
- D. Process stability

Answer: D

Question No : 5

Which of the following statements about high-volume repetitive manufacturing is true?

- A. Machinery and workers must be flexible
- B. Takt time is variable
- C. There is very little stocking of intermediate assemblies
- D. Throughput times are generally long

Answer: C

Question No : 6

Which of the following steps should be first in determining operation start dates for capacity planning?

- A. Input/output control
- B. Forward or backward scheduling
- C. Finite or infinite loading
- D. Order preparation and release

Answer: B

APICS CPIM-ECO Exam

Question No : 7

During a soldering operation some components were getting damaged due to high temperatures. A fix to eliminate the defect was put into place, which resulted in a(n):

- A. SPC study.
- B. 6 sigma process.
- C. poka-yoke.
- D. 100% inspection.

Answer: C

Question No : 8

Which of the following factors should have the greatest influence on an operation's choice of new equipment?

- A. Brand name identification
- B. Opinions expressed via the social media
- C. Country of manufacture
- D. Reliability and service

Answer: D

Question No : 9

A work center has a balance between the scheduled input and output over the next 4 weeks. One of the three machines in the work center will be out of service for 1 week. Currently, three operators work the first shift, one operator works the second shift, and each has a 40-hour work week. Which of the following actions is best to take to maintain the schedule?

- A. Move an operator from the first to the second shift.
- B. Schedule 40 hours of overtime.
- C. Subcontract 40 hours of work.
- D. Adjust the input.

APICS CPIM-ECO Exam

Answer: A

Question No : 10

Which of the following terms describes a management technique used to evaluate planned changes to production processes?

- A. Analysis of variance
- B. Theory of constraints
- C. Design of experiments
- D. Design for manufacturability

Answer: D

Question No : 11

Small-group improvement activities are most effective when the:

- A. group is guided by a professional facilitator.
- B. group focuses on solvable problems.
- C. machine operators are required to participate.
- D. company's industrial engineers participate.

Answer: B

Question No : 12

With vendor managed inventory, a supplier must obtain which of the following data from the customer to ensure high service levels?

- A. Average quantity per shipment
- B. Average inventory level
- C. Inventory consumption
- D. On-time delivery percentage

APICS CPIM-ECO Exam

Answer: C

Question No : 13

Obtaining processing inspection and testing data is an example of which of the following quality-related costs?

- A. Appraisal
- B. Prevention
- C. Internal failure
- D. External failure

Answer: A

Question No : 14

Based on the theory of constraints (TOC) scheduling approach, smaller lots created as a result of splitting order quantities are considered to be:

- A. period order quantities.
- B. bottleneck batches.
- C. transfer batches.
- D. campaign orders.

Answer: C

Question No : 15

Based on the data provided, assume that time available per day is 840 minutes. What is the takt time per unit of demand?

{exhibit 4027}

- A. 84.0 minutes
- B. 22.1 minutes
- C. 2.21 minutes