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Execution and Control of Operations

APICS CPIM-ECO

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QUESTION NO: 1

The average length of time a job must wait at a work center is a function of the:

- A. operation duration.
- B. estimated start date.
- C. planned size of the queue.
- D. transportation time to the work center.

ANSWER: C

QUESTION NO: 2

A reduction in the lead time results from which of the following actions?

- A. Increase in work-in-process, increase in throughput
- B. Increase in work-in-process, decrease in throughput
- C. Decrease in work-in-process, increase in throughput
- D. Decrease in work-in-process, decrease in throughput

ANSWER: C

QUESTION NO: 3

The actual output of a work center for a given time period can be determined by evaluating the:

- A. number of standard hours in the queue.
- B. number of standard hours per units produced.
- C. number of machine hours.
- D. amount of rated capacity less rework.

ANSWER: B

QUESTION NO: 4

To reduce the cost of transaction processing, a repetitive manufacturer first would implement:

- A. inventory staging.
- B. a point-of-sale system.
- C. point-of-use storage.
- D. cycle counting.

ANSWER: C

QUESTION NO: 5

Concurrent engineering is defined as which of the following approaches?

- A. Competitive design of a product by different groups
- B. Simultaneous design of different modules by the engineering department
- C. Participation of all relevant departments in developing a new product
- D. Redundant systems in design to improve reliability

ANSWER: C

QUESTION NO: 6

Operation-to-operation quantity reporting is most important to which of the following production environments?

- A. Job-lot production
- B. Process production
- C. Repetitive manufacturing
- D. Continuous manufacturing

ANSWER: A

QUESTION NO: 7

A customer has complained that paint is peeling off a product recently purchased from a supplier. A team is formed in the supplier plant to solve the problem and follow these steps:

1. Describe the problem.
2. Identify major categories of causes of the problem.
3. Identify potential causes of the problem.
4. Establish priorities for the probable causes of the problem.
5. Pursue the root cause of the problem by asking "why?".

Which of the following methods best describes the problem-solving approach used by the team?

- A. Pareto analysis
- B. Brainstorming
- C. Five why's
- D. Fishbone analysis

ANSWER: D

QUESTION NO: 8

When designing a cell, a company should consider which of the following factors when determining the quantity needed for installation of a specific machine type?

- A. Cycle time for the operation relative to other operations in the cell
- B. Total load to be processed through the facility
- C. The part-coding classification system used
- D. Standard cost of the assembly

ANSWER: A

QUESTION NO: 9

Which of the following outcomes is typical of employee engagement?

- A. Discretionary effort exerted towards improvement in quality
- B. Increase debate about company goals
- C. Decrease in hoshin planning activities
- D. Increase in kanban size of in-process inventories

ANSWER: A

QUESTION NO: 10

Which of the following methods is used to sequence jobs planned for production within the same time period?

- A. Infinite loading
- B. Finite loading
- C. Critical ratio
- D. Part period balancing

ANSWER: C