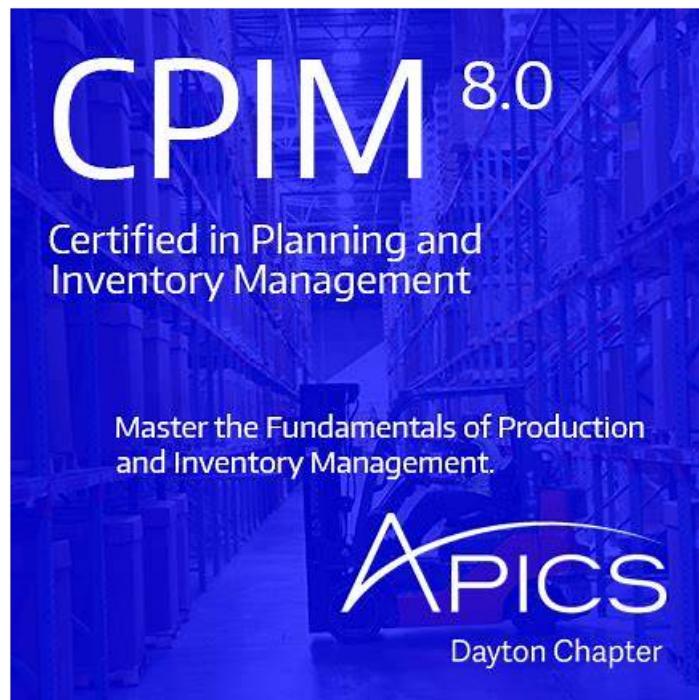


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## APICS CPIM-8.0 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Quality, Technology, and Continuous Improvement: This section assesses skills of Quality Assurance Specialists, focusing on quality assurance methodologies enhanced by technology to drive continuous improvement efforts. A key skill measured here is "enhancing quality metrics."</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Sales and Operations Planning: This module assesses the skills of Operations Planners in terms of sales and operations planning processes. It includes understanding the purpose of S&amp;OP, creating aggregate demand plans, and reconciling these plans to ensure alignment between sales forecasts and operational capabilities. A crucial skill measured is "reconciling supply-demand gaps."</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Demand: This section evaluates the abilities of Demand Analysts in managing demand through forecasting techniques. It explores sources of demand data for accurate forecasting and evaluating forecast performance to improve future predictions. One important skill evaluated is "forecasting demand accurately."</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>Detailed Schedules: This section assesses the skills of Production Planners by focusing on detailed scheduling processes for production or service delivery environments. It includes methods like PAC (Programmable Automation Controller) scheduling techniques to manage detailed production timelines efficiently across different materials required for manufacturing or service delivery processes.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Supply: This module tests the competencies of Procurement Specialists in managing supply chains effectively. It involves creating master schedules for production planning, maintaining these schedules over time, material requirements planning (MRP), capacity requirements planning (CRP), supplier management practices, and purchasing strategies during product life cycle changes. A key skill measured here is "validating master schedules."</li> </ul>

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## Valid CPIM-8.0 Test Objectives, Cert CPIM-8.0 Guide

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## APICS Certified in Planning and Inventory Management (CPIM 8.0) Sample Questions (Q349-Q354):

### NEW QUESTION # 349

Labor3 people

Work hours10 hours per day

Days4 days per week

Meetings with work area employees1/2 hour per day

Work area efficiency85%

Given the information above, what is the weekly theoretical capacity of this work area in hours?

- A. 0
- B. 1**
- C. 2
- D. 3

### Answer: B

Explanation:

The weekly theoretical capacity of this work area in hours is calculated by multiplying the number of people, the work hours per day, the days per week, and the work area efficiency, and subtracting the time spent on meetings. The formula is:

$$\text{Capacity} = (3 \times 10 \times 4 \times 0.85) - (3 \times 0.5 \times 4)$$

$$\text{Capacity} = (102) - (6)$$

$$\text{Capacity} = 96$$

The closest answer to this value is 120, which is option D. References =

\* CPIM Exam Content Manual, Module 5: Detailed Schedules, Section 5.1: Capacity Management, p. 18

\* Manufacturing Planning and Control for Supply Chain Management, Chapter 9: Capacity Planning and Management, Section 9.2: Capacity Planning Concepts, pp. 217-218

### NEW QUESTION # 350

Moving average forecasting methods are best when demand shows:

- A. a clear trend.
- B. consistent seasonality.
- C. high random variation.**

- D. a cyclical pattern.

**Answer: C**

Explanation:

Moving average forecasting methods are best when demand shows high random variation, as they help to smooth out the noise and capture the underlying level of demand. Moving average methods use the average of the most recent observations as the forecast for the next period. They assign equal weights to all observations in the average, and drop the oldest observation when a new one becomes available. Moving average methods are not suitable for demand patterns that show a clear trend, consistent seasonality, or a cyclical pattern, as they cannot capture these components of demand. For these patterns, more sophisticated methods such as exponential smoothing or regression are needed. Reference: Forecasting with moving averages, APICS CPIM 8 Planning and Inventory Management | ASCM

**NEW QUESTION # 351**

Which of the following capacity planning methods uses the master production schedule (MPS) as its primary input?

- A. Finite loading
- B. Resource planning
- C. Input/output analysis
- D. Rough-cut capacity planning (RCCP)

**Answer: D**

Explanation:

Rough-cut capacity planning (RCCP) is a type of capacity planning method that uses the master production schedule (MPS) as its primary input. RCCP is a technique for checking the feasibility of the MPS by comparing the available capacity of critical resources (such as machines, labor, or materials) with the capacity required by the MPS. RCCP helps to identify and resolve any potential capacity problems or bottlenecks at an aggregate level, before committing to the MPS. RCCP can also be used to evaluate alternative MPS scenarios and to support the sales and operations planning (S&OP) process12. Reference: 1 Rough Cut Capacity Planning (RCCP) - Definition, Example, and ... 3 2 CPIM Exam Reference - Association for Supply Chain Management

**NEW QUESTION # 352**

Small, independent demands for components and subassemblies typically arise from which of the following sources?

- A. Scrap allowance
- B. Repair and service requirements
- C. Warehouse orders
- D. Original equipment manufacturers

**Answer: B**

Explanation:

Independent demand for components and subassemblies is not tied to the demand of a higher-level item

These typically come from repair, maintenance, and service activities, where components are needed on their own rather than as part of a finished product.

"Independent demand... includes service/replacement parts and maintenance repair operating supplies."

- CPIM MRP Module C1-5

**NEW QUESTION # 353**

If the total part failure rate of a machine is 0.00055 failures per hour, what would be the mean time between failures (MTBF) in hours?

- A. 1,818.2
- B. 59.99945
- C. 1.98
- D. 0.99945

**Answer: A**

### Explanation:

The mean time between failures (MTBF) is the inverse of the failure rate. The failure rate is given as 0.000055 failures per hour, so the MTBF is  $1/0.000055 = 1,818.2$  hours. This means that the average time the machine operates without failing is 1,818.2 hours.

References: MTBF Formula | How to Calculate Mean Time Between Failure? - EDUCBA, Mean time between failures - Wikipedia

## NEW QUESTION # 354

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