

# Exam CPIM-8.0 Objectives, Learning CPIM-8.0 Materials

## 2220 Test 1 Learning Objectives

Here is a list of learning objectives for test 1. If you can understand all the following points, you will do well on the test. The test consists of 65 multiple choice questions like the ones you've seen on your quizzes. Happy studying and good luck.

### Chapter 1: Neuroanatomy

- Define and differentiate the functional zones of a neuron (dendrites, cell body, axon, axon terminals).
- Identify the four principal types of glial cells.
- Identify the types of neurons (multipolar, unipolar, bipolar) and their characteristics.
- Differentiate between gray matter and white matter.
- Define and differentiate the 4 major parts of the brain.
- Identify the major components of the basal ganglia and limbic system.
- Name the major divisions of the brainstem and midbrain.
- Differentiate the major divisions of the spinal cord (cervical, thoracic, lumbar, sacral).
- Understand the different levels of analysis that may be focused on by behavioral neuroscientists.

### Chapter 2: Neurophysiology

- Understand the process of an action potential, including depolarization and repolarization.
- Explain the role of myelin in increasing the speed of action potential conduction.
- Understand the factors influencing action potential conduction velocity.
- Differentiate between excitatory and inhibitory postsynaptic potentials.
- Understand how each neuron uses electrical signals to integrate information from other neurons.
- Identify the sequence of steps that take place when one neuron releases a chemical signal to affect another.
- Explain the process of neurotransmitter release and the role of receptors in determining excitatory or inhibitory effects.
- Understand the electrical activity underlying the brain disorder called epilepsy.

### Chapter 3: Chemistry of Behavior

- Identify the major neurotransmitters, briefly describe the chemical families of transmitters to which they belong (e.g., acetylcholine, dopamine, serotonin, GABA).
  - Understand some of the major functional roles of the classical transmitters.
- Define and compare agonists and antagonists in drug action.

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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>• 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 3	<ul style="list-style-type: none"> <li>Inventory: The inventory module evaluates the skills of Inventory Controllers, covering inventory planning principles such as determining optimal stock levels based on costs versus benefits analysis metrics like ABC classification systems used globally today along with itemized inventory control mechanisms ensuring efficient stock turnover rates while minimizing holding costs. Distribution: This section measures the abilities of Logistics Coordinators, focusing on distribution network design principles that optimize replenishment orders efficiently while considering reverse logistics practices aimed at reducing waste through proper disposal methods according to environmental regulations.</li> </ul>
Topic 4	<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>
Topic 5	<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>

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### **APICS Certified in Planning and Inventory Management (CPIM 8.0) Sample Questions (Q88-Q93):**

#### **NEW QUESTION # 88**

While conducting an information asset audit, it was determined that several devices were running unpatched Operating Systems (OS). Further review indicated the OS was no longer supported by the vendor. Which of the following BEST indicates the appropriate asset lifecycle stage of the devices?

- A. Maintain
- B. Dispose**
- C. Procure
- D. Modify

**Answer: B**

#### **NEW QUESTION # 89**

A plant uses a level production strategy due to the high costs of hiring and letting go of skilled employees.

The constrained resource is due to be upgraded in the fourth month of the planning horizon, and that will reduce capacity for that month by 17%.

Which of the following actions would be appropriate in this situation to maintain current levels of customer service and gross margin?

- A. Increase planned production from the fifth period on.
- B. Increase planned production for the next three periods.**
- C. Defer the upgrade to the period in which the highest stock level is planned.
- D. Defer the upgrade to a period beyond the planning time fence.

**Answer: B**

#### Explanation:

A level production strategy is a manufacturing strategy where a company produces a fixed number of products at a fixed rate<sup>1</sup>. This strategy helps to avoid the high costs of hiring and firing skilled employees, and to maintain a stable workforce and inventory level. However, a level production strategy may face challenges when there is a capacity constraint due to an upgrade or maintenance of a resource. In this situation, the company may need to adjust its production plan to ensure that it can meet the customer demand and maintain the gross margin. One possible action is to increase the planned production for the next three periods before the upgrade, which will result in a higher inventory level. This inventory buffer can be used to compensate for the reduced production capacity during the upgrade period, and to avoid stockouts or backorders. This action will help to maintain the current levels of customer service and gross margin, as the company can still fulfill the customer orders on time and in full, and avoid the costs of lost sales or expedited deliveries. Option B is not correct, because deferring the upgrade to a period beyond the planning time fence may not be feasible or desirable, as the planning time fence is the period in which the production plan is considered firm and not subject to changes<sup>2</sup>. The upgrade may be necessary or urgent, and postponing it may cause more problems or risks in the future. Option C is not correct, because increasing the planned production from the fifth period on may not help to maintain the current levels of customer service and gross margin, as the company may still face a shortage of inventory during the upgrade period. Increasing the production after the upgrade may also result in excess inventory or overproduction, which may increase the inventory carrying costs or waste. Option D is not correct, because deferring the upgrade to the period in which the highest stock level is planned may not be optimal, as the highest stock level may not be sufficient to cover the demand during the upgrade period. Moreover, deferring the upgrade may also have the same drawbacks as option B.

References: 1 Guide to Level Production Strategy - Welp Magazine 3 2 Planning Time Fence | SAP Help Portal 4

#### NEW QUESTION # 90

Which of the following product design approaches are likely to reduce time to market for a global supply chain?

- A. Quality function deployment (QFD)
- B. Concurrent engineering
- C. Design for logistics
- D. Design for manufacture

#### Answer: B

#### Explanation:

Concurrent engineering is a product design approach that involves the simultaneous and collaborative involvement of different functional areas, such as engineering, marketing, manufacturing, and suppliers, in the product development process. Concurrent engineering aims to reduce time to market, improve quality, lower costs, and enhance customer satisfaction by integrating and coordinating the inputs and feedback of all the stakeholders from the early stages of design. Concurrent engineering can also facilitate the standardization and modularization of product components, which can improve the flexibility and responsiveness of a global supply chain. References:

Managing Supply Chain Operations, Chapter 3: Product Design and Development, Section 3.2:

Concurrent Engineering

CPIM Exam Content Manual, Module 1: Supply Chains and Strategy, Section 1.3: Product and Process Design, Subsection 1.3.1: Product and Process Design Concepts

#### NEW QUESTION # 91

An organization has deployed an Identity And Access Management (IAM) tool and is expanding their information governance program. Which of the following would BEST be included in the governance for IAM?

- A. Implementing Multi-Factor Authentication (MFA) and account lookout controls.
- B. Control physical access to the IAM system and implementing Data Loss Prevention (DPL) for credentials.
- C. Employ password masking, obfuscation, and tokenization and automate account updates based on human resources reporting.
- D. Create and enforce a strong password policy and implementing security awareness training for all users.

#### Answer: C

#### NEW QUESTION # 92

A hot Disaster Recovery (DR) data center is the victim of a data breach. The hackers are able to access and copy 10GB of clear text confidential information. Which of the following could have decreased the amount of exposure from this data breach?

- A. Encryption in transit
- B. Password hashing
- C. Encryption at rest
- D. Layer 7 filtering

**Answer: C**

## NEW QUESTION # 93

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