

# CPIM Practice Exam (Sample)

## Study Guide



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## **Questions**

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- 1. What is a key output of distribution requirements planning?**
  - A. Raw material sourcing**
  - B. Master production schedule**
  - C. Inventory turnover analysis**
  - D. Supplier performance metrics**
- 2. Which accounts are primarily involved when calculating COGS?**
  - A. Assets and Liabilities**
  - B. Revenue and Expenses**
  - C. Direct Materials, Direct Labor, and Allocated Overhead**
  - D. Sales and Accounts Receivable**
- 3. How is utilization best defined?**
  - A. A measure of resource output compared with total production**
  - B. The ratio of actual time used to available time expressed as a percentage**
  - C. The average performance of all workers in a facility**
  - D. The time spent in maintenance during production hours**
- 4. After a purchase requisition is generated, what is the immediate next step in the purchasing cycle?**
  - A. Follow up**
  - B. Approve payment**
  - C. Receive goods**
  - D. Issue purchase order**
- 5. Which term describes the time needed to complete an order?**
  - A. Lead time**
  - B. Cycle time**
  - C. Turnaround time**
  - D. Processing time**

**6. How can distinct attributes of a product be effectively measured?**

- A. By applying total quality management principles.**
- B. By conducting function testing on final goods.**
- C. With the use of quality assurance processes.**
- D. Through the implementation of lean methodologies.**

**7. What mechanism helps ensure an organization has multiple options when sourcing products?**

- A. Single sourcing**
- B. Multisourcing**
- C. Consignment**
- D. Sole sourcing**

**8. In a lean environment, how should savings be handled?**

- A. Exclusive to the buyer**
- B. Shared between customer and supplier**
- C. Retained for future investment**
- D. Utilized for increased production**

**9. What is meant by a "frozen zone" in inventory management?**

- A. A phase where orders can be easily changed**
- B. A segment where all changes are restricted**
- C. A period of inactivity in production**
- D. A time of peak demand forecasting**

**10. In which inventory model is an order placed every n time units?**

- A. Fixed reorder cycle inventory model**
- B. Periodic restocking model**
- C. Just-in-time inventory model**
- D. Consignment inventory model**

## **Answers**

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- 1. B**
- 2. C**
- 3. B**
- 4. D**
- 5. A**
- 6. C**
- 7. B**
- 8. B**
- 9. B**
- 10. A**

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## **Explanations**

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## 1. What is a key output of distribution requirements planning?

- A. Raw material sourcing
- B. Master production schedule**
- C. Inventory turnover analysis
- D. Supplier performance metrics

**Distribution Requirements Planning (DRP)** is a crucial component in supply chain management that focuses on the effective allocation and distribution of inventory to meet customer demand. One of the key outputs of DRP is the **Master Production Schedule (MPS)**. The MPS provides a detailed plan on what needs to be produced, in what quantities, and at what times to meet the forecasted demand from customers. It helps align production activities with distribution needs and ensures that inventory levels are adequate to fulfill orders while minimizing excess stock. By linking production schedules directly to customer demand, the MPS serves as a blueprint for managing resources efficiently, allowing for better planning and reduced lead times. This output is essential for coordinating the flow of materials and products throughout the supply chain, ensuring that the right products are available at the right locations when needed. Other options focus on different areas of the supply chain process, such as sourcing materials, analyzing inventory turnover, or measuring supplier performance, but they do not directly relate to the distribution planning output in the way that the Master Production Schedule does.

## 2. Which accounts are primarily involved when calculating COGS?

- A. Assets and Liabilities
- B. Revenue and Expenses
- C. Direct Materials, Direct Labor, and Allocated Overhead**
- D. Sales and Accounts Receivable

The calculation of **Cost of Goods Sold (COGS)** primarily involves **Direct Materials**, **Direct Labor**, and **Allocated Overhead**. COGS reflects the direct costs attributable to the production of the goods that a company sells within a given period. Direct Materials refer to the raw materials that are used to create the product. Direct Labor includes the labor costs incurred to manufacture the goods, which are directly tied to production. Allocated Overhead consists of the indirect costs associated with the production process, such as utilities, depreciation of equipment, and rent for the manufacturing facility. These components collectively contribute to understanding the total cost incurred to bring a product to market, making them essential for calculating COGS accurately. This understanding is vital for financial reporting and assessing the profitability of a company's operations since COGS directly influences gross profit and ultimately net income. Other options involve elements that are either more general financial categories (like Revenue and Expenses) or not directly related to production costs.

### 3. How is utilization best defined?

- A. A measure of resource output compared with total production
- B. The ratio of actual time used to available time expressed as a percentage**
- C. The average performance of all workers in a facility
- D. The time spent in maintenance during production hours

Utilization is best defined as the ratio of actual time used to available time expressed as a percentage. This definition captures the essence of how effectively resources, such as machines or labor, are being utilized in a production environment. By measuring the actual time resources are engaged in productive activities against the total time they could potentially be available to work, utilization provides insight into efficiency and capacity management. Understanding utilization in this way helps organizations identify areas where productivity can be improved. A high utilization percentage indicates that resources are being used effectively, while a low percentage suggests there may be idle time or inefficiencies that need to be addressed. This metric is crucial for decision-making to enhance overall operational performance. The other options, while related to performance and productivity, do not adequately encapsulate the specific concept of utilization. For instance, measuring resource output compared to total production is more aligned with productivity metrics rather than utilization specifically. Average performance of all workers focuses on workforce efficiency rather than the utilization of resources as a whole, and time spent on maintenance during production hours does not directly relate to the efficiency of resource utilization.

### 4. After a purchase requisition is generated, what is the immediate next step in the purchasing cycle?

- A. Follow up
- B. Approve payment
- C. Receive goods
- D. Issue purchase order**

The immediate next step in the purchasing cycle after a purchase requisition is generated is to issue a purchase order. This step is crucial as it formally communicates to the supplier the intent to purchase specified goods or services under defined terms and conditions. The purchase order serves as a binding contract between the buyer and the seller, outlining the details of the transaction including quantities, delivery dates, and pricing. Issuing the purchase order is a direct response to the requisition and is essential for initiating the procurement process. It ensures that there is clear documentation of the request, which helps in maintaining accurate records for both the buyer and supplier. Following the purchase order, subsequent actions such as receiving goods and approving payments take place. However, these actions depend on the prior issuance of the purchase order, solidifying its role as the key next step in the cycle.

**5. Which term describes the time needed to complete an order?**

- A. Lead time**
- B. Cycle time**
- C. Turnaround time**
- D. Processing time**

The term that describes the time needed to complete an order is lead time. Lead time encompasses the entire duration from when an order is placed until it is delivered to the customer. This includes not only the processing and manufacturing stages, but also additional factors like order review, release for production, handling, and transportation. Understanding lead time is crucial in supply chain management because it directly affects customer satisfaction, inventory management, and overall supply chain efficiency. Shortening lead time can lead to increased competitiveness and better responsiveness to market demands. Cycle time, while related, refers to the total time it takes to produce a product from start to finish but does not specifically encompass the order completion process from a customer perspective. Turnaround time is often used in the context of service delivery or turnaround in operations, and processing time specifically refers to the time taken to complete the tasks involved in processing a single order, which is just one component of the overall lead time.

**6. How can distinct attributes of a product be effectively measured?**

- A. By applying total quality management principles.**
- B. By conducting function testing on final goods.**
- C. With the use of quality assurance processes.**
- D. Through the implementation of lean methodologies.**

Measuring distinct attributes of a product effectively involves a systematic approach to ensure that the characteristics meet specified criteria and standards. Utilizing quality assurance processes contributes significantly to this measurement. Quality assurance encompasses various activities that help define and evaluate product attributes, ensuring consistency in quality and performance throughout production. This process includes establishing quality benchmarks, performing inspections, and implementing controls that optimize product reliability and customer satisfaction. While total quality management principles, function testing on final goods, and lean methodologies all play important roles in the overall quality and efficiency of production, they focus on broader concepts or specific aspects of production rather than directly measuring the distinct attributes. Quality assurance addresses the consistent evaluation and validation of attributes, making it the most effective method in this context.

**7. What mechanism helps ensure an organization has multiple options when sourcing products?**

- A. Single sourcing**
- B. Multisourcing**
- C. Consignment**
- D. Sole sourcing**

Multisourcing is the correct answer because it involves obtaining products or services from multiple suppliers. This approach provides organizations with a variety of options, which can enhance flexibility and reliability in supply chain management. By diversifying their supply sources, companies can mitigate risks associated with dependency on a single supplier, such as supply disruptions, price increases, or quality issues.

Additionally, multisourcing fosters competitive pricing and helps organizations leverage different suppliers' strengths. It allows for better negotiation opportunities and can lead to improved innovation as suppliers vie to offer better solutions for the business. By having multiple options available, organizations can respond more effectively to changes in demand and market conditions. In contrast, single sourcing and sole sourcing limit the organization to one supplier, which can lead to increased risk if that supplier encounters issues. Consignment involves a specific inventory management arrangement, but it does not inherently provide multiple sourcing options.

**8. In a lean environment, how should savings be handled?**

- A. Exclusive to the buyer**
- B. Shared between customer and supplier**
- C. Retained for future investment**
- D. Utilized for increased production**

In a lean environment, handling savings through a shared approach between customer and supplier fosters collaboration and encourages continuous improvement. This philosophy is rooted in the principles of lean management, which emphasize maximizing value and minimizing waste. When both parties share the savings, it creates a mutually beneficial relationship where both are incentivized to find efficiencies and reduce costs. Sharing savings helps build trust and a stronger partnership, as both the customer and supplier can see tangible rewards from their efforts to streamline processes and eliminate waste. This collaborative spirit aligns with lean principles, which advocate for a focus on long-term relationships rather than short-term gains for one party. It also encourages innovation and problem-solving, as both parties become more invested in each other's success. In contrast, if savings were exclusive to the buyer or solely retained for future investment, it could create an imbalance in the relationship and discourage suppliers from actively participating in improvement initiatives. Similarly, simply utilizing savings for increased production may overlook the importance of sustainability and collaborative growth in a lean context. Thus, sharing savings not only reinforces lean principles but also enhances the overall value stream for both parties involved.

## 9. What is meant by a "frozen zone" in inventory management?

- A. A phase where orders can be easily changed
- B. A segment where all changes are restricted**
- C. A period of inactivity in production
- D. A time of peak demand forecasting

In inventory management, a "frozen zone" refers to a segment where all changes are restricted. This is typically implemented to provide stability in the inventory process during a specific period, usually in anticipation of a set production or sales window. By establishing a frozen zone, organizations can minimize disruptions and maintain accuracy in planning and scheduling. The frozen zone is particularly valuable when it comes to protecting production schedules and ensuring that inventories are not modified at critical times, such as during the buildup to a major sales event or when producing a critical product line. This concept enhances overall efficiency and helps avoid errors that could arise from last-minute changes, leading to improved operational predictability. The other choices do not accurately capture the definition of a frozen zone. For instance, a phase where orders can be easily changed actually describes dynamic inventory environments rather than frozen zones. Similarly, a period of inactivity in production does not align with the function of a frozen zone, as it is not about inactivity but rather about maintaining the status quo of inventory. Lastly, a time of peak demand forecasting is related to anticipating future needs, but it doesn't imply restrictions on making changes within the inventory.

## 10. In which inventory model is an order placed every n time units?

- A. Fixed reorder cycle inventory model**
- B. Periodic restocking model
- C. Just-in-time inventory model
- D. Consignment inventory model

The inventory model that involves placing an order every n time units is known as the fixed reorder cycle inventory model. This model operates on a predetermined schedule, allowing businesses to plan their inventory replenishment at regular intervals. By placing orders at consistent time intervals, organizations can maintain a smooth flow of goods and optimize their stock levels. In this model, the quantity to order may vary depending on the inventory level at the time of each order, but the timing of when the order is placed is consistent and predictable. This method is beneficial for managing inventory levels efficiently while minimizing stockouts and excess inventory. The periodic restocking model, while similar, implies that inventory is replenished at specific intervals without a consistent order size determined beforehand. Just-in-time inventory focuses on minimizing inventory levels by ordering only as needed, which does not align with placing orders at fixed time intervals. Consignment inventory involves a supplier maintaining ownership of goods until they are used or sold, which does not pertain to the timing of order placements.