

CPIM On-Demand Training for Self-Study Professionals

Are you preparing for the CPIM certification through self-study? As an experienced supply chain professional, you already have strong practical knowledge—but some topics may still need expert clarification. Fhyzics Business Consultants bridges that gap with on-demand, topic-oriented CPIM training sessions designed specifically for self-learners.

Whether you need guidance on a single concept or an entire module, our focused training helps you master complex areas quickly and confidently. Get personalized support, strengthen your exam readiness, and elevate your supply chain expertise—on your schedule.

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Push-Pull Strategy and Manufacturing Environment

1. Push Strategy Fundamentals

A push strategy initiates production and distribution based on **forecasted demand** rather than actual orders. Inventory is pushed downstream to meet anticipated customer needs. This approach supports economies of scale but risks overproduction or obsolescence if forecasts are inaccurate. CPIM candidates must understand how push systems depend on effective forecasting and aggregate planning.

2. Pull Strategy Fundamentals

A pull strategy begins production or replenishment only in response to actual customer demand. It minimizes inventory and reduces waste but may increase lead times if not properly balanced. Pull systems are typically supported by kanban, just-in-time (JIT), or demand-driven MRP (DDMRP) concepts.

3. Push-Pull Boundary (Decoupling Point)

The push-pull boundary—also called the **decoupling point**—is where forecast-driven processes shift to demand-driven ones. The location of this point determines inventory positioning, responsiveness, and production planning methods. CPIM emphasizes aligning the boundary with product demand variability and lead time considerations.

4. Make-to-Stock (MTS) Environment

In the MTS environment, products are produced in anticipation of demand and stocked for immediate delivery. It suits stable, predictable demand. Inventory buffers at finished goods level absorb variability. CPIM learners should

understand service level trade-offs and capacity planning in MTS systems.

5. Assemble-to-Order (ATO) Environment

The **ATO** strategy keeps components and subassemblies in stock and assembles products only after receiving customer orders. It blends push and pull principles—components are pushed, but final assembly is pulled. CPIM candidates must recognize ATO's advantages in product customization and response time.

6. Make-to-Order (MTO) Environment

In **MTO**, manufacturing begins only after a customer order is received. It reduces inventory but increases lead time. Suitable for low-volume, high-customization products, MTO relies on efficient scheduling and capacity management. CPIM professionals must understand MTO's impact on throughput and service levels.

7. Engineer-to-Order (ETO) Environment

ETO involves designing and manufacturing unique products to customer specifications. The push-pull boundary occurs before design. This environment requires strong project management and coordination between engineering, procurement, and production. CPIM learners should grasp how ETO drives flexibility but challenges lead time management.

8. Demand Variability and Strategy Selection

High demand variability favors pull systems; stable demand supports push. CPIM candidates should be able to evaluate demand patterns and select appropriate strategies or hybrid models to balance service, cost, and flexibility across the supply chain.

9. Lead Time and Order Fulfillment

Lead time performance depends on where inventory is held in the push-pull chain. Push systems hold inventory upstream, reducing manufacturing time but increasing storage cost. Pull systems shorten delivery flexibility but rely on fast response. CPIM learners analyze trade-offs to align with customer expectations.

10. Inventory Positioning

Inventory acts as a decoupler between push and pull processes. Strategic inventory positioning—at raw material, work-in-process (WIP), or finished goods levels—improves responsiveness and cost control. In CPIM, understanding inventory buffers is essential to managing variability across supply nodes.

11. Demand-Driven MRP (DDMRP)

DDMRP integrates push and pull logic by using **buffer zones** at key points in the supply chain. It combines strategic decoupling, visibility, and flow control to maintain service levels while minimizing inventory. CPIM emphasizes DDMRP as a modern evolution of traditional MRP systems.

12. Hybrid Push-Pull Systems

Many firms use hybrid systems—pushing base components based on forecast and pulling final assembly from customer orders. CPIM professionals must identify how hybrid systems enhance responsiveness without losing production efficiency, particularly in consumer electronics and automotivesing ustries: | Certifications@Fhyzics.net | +91-900-304-9000

13. Bullwhip Effect and Information Flow

Poor coordination in push systems can amplify demand variability—known as the **bullwhip effect**. Sharing real-time demand data mitigates this issue. CPIM candidates should understand how information flow affects production, inventory, and replenishment efficiency in both push and pull systems.

14. Capacity Planning Across Strategies

Push systems plan capacity based on forecasts, while pull systems adjust dynamically to demand. CPIM professionals must balance fixed and flexible capacity to support their chosen strategy without incurring high idle time or overtime costs.

15. Role of Forecast Accuracy

Forecast accuracy directly impacts push strategy success. Inaccurate forecasts lead to overproduction and excess inventory. CPIM learners should know how forecasting techniques, demand sensing, and collaborative planning (CPFR) improve alignment between production and actual demand.

16. Material Flow and Production Control

Push systems rely on MRP (Material Requirements Planning) to drive material flow, while pull systems use kanban or reorder-point control. CPIM professionals must understand both control mechanisms to manage materials effectively in varying demand environments.

17. Postponement Strategy

Postponement delays final production or customization until customer orders are received, enabling responsiveness and inventory reduction. It is a strategic way to manage the push-pull boundary. CPIM examines how postponement supports ATO and MTO environments.

18. Customer Service and Responsiveness

Push systems excel in availability; pull systems excel in responsiveness. CPIM learners should understand how service levels, lead times, and cost structures differ between these approaches and how strategic alignment ensures competitive advantage.

19. Supply Chain Agility and Flexibility

Pull-oriented systems promote agility by responding rapidly to real-time demand. Facility layout, technology, and supplier responsiveness enhance flexibility. CPIM professionals must evaluate how agile operations support product variety and shorter product life cycles.

20. Aligning Push-Pull Strategy with Business Goals

The ultimate goal is alignment—matching manufacturing and inventory strategies to corporate objectives. For example, cost-focused firms favor push; differentiation-focused firms favor pull. CPIM learners must integrate strategy choice with customer expectations, market dynamics, and competitive priorities.

Micro-Learning Programs in Supply Chain Management & Procurement



Enhance your professional edge with Fhyzics Business Consultants' Micro-Learning Programs in Supply Chain Management and Procurement. Designed as focused, two-hour Executive Development Programs, these sessions deliver practical insights and tools to solve real-world business challenges. Conducted in small batches for personalized learning, participants gain a deeper understanding of key supply chain and procurement strategies that drive efficiency and profitability. Each participant receives a certificate of completion, adding value to their professional profile and career growth. Whether you aim to advance in your current role or explore new opportunities, this program equips you with the knowledge and confidence to excel.



Micro-Learning Programs in Supply Chain Management



- 1. Fundamentals of Supply Chain Management
- 2. Supply Chain Planning and Optimization
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- 4. Inventory Control and Management
- 5. Distribution and Logistics Strategy
- 6. Warehouse Layout and Operations Efficiency
- 7. Supply Chain Risk Management
- 8. Supply Chain Performance Metrics (KPIs)
- 9. Lean Supply Chain Practices
- 10. Agile and Responsive Supply Chains
- 11. Sales and Operations Planning (S&OP)
- 12. Supply Chain Network Design
- 13. Supply Chain Digital Transformation
- 14. AI and Data Analytics in Supply Chain
- 15. Supply Chain Sustainability and Green Logistics
- 16. Reverse Logistics and Returns Management
- 17. Supply Chain Collaboration and Integration
- 18. Supplier Relationship Management in SCM
- 19. Global Supply Chain Strategy
- 20. Transportation Management Systems (TMS)
- 21. Inventory Optimization Models
- 22. Demand-Driven MRP (DDMRP) Concepts
- 23. Blockchain Applications in Supply Chain
- 24. Supply Chain Cost Reduction Techniques
- 25. SCOR Model and Process Improvement

Micro-Learning Programs in Supply Chain Management ...



- 26. Capacity Planning and Resource Allocation
- 27. Managing Supply Chain Disruptions
- 28. End-to-End Supply Chain Visibility
- 29. Cold Chain Logistics Management
- 30. Supply Chain Compliance and Ethics
- 31. Import-Export Procedures and Documentation
- 32. Managing Third-Party Logistics (3PL) Providers
- 33. Supply Chain Collaboration Technologies
- 34. Production Planning and Scheduling
- 35. Strategic Supply Chain Design Using Case Studies
- 36. Circular Economy in Supply Chain
- 37. Vendor-Managed Inventory (VMI)
- 38. Transportation Optimization Techniques
- 39. E-Commerce Supply Chain Models
- 40. Omni-Channel Fulfillment Strategies
- 41. Warehouse Automation and Robotics
- 42. SCOR DS Roadmap for Supply Chain Excellence
- 43. Customer-Centric Supply Chain Strategies
- 44. Supply Chain Finance and Working Capital Management
- 45. Supply Chain Data Visualization Using Power BI
- 46. Strategic Sourcing in Supply Chain Context
- 47. Supply Chain Benchmarking and Best Practices
- 48. Integrated Business Planning (IBP)
- 49. Supply Chain in Crisis Management and Recovery
- 50. Future Trends and Technologies in Supply Chain

Micro-Learning Programs in Procurement



- 1. Fundamentals of Procurement Management
- 2. Strategic Sourcing and Category Management
- 3. Supplier Selection and Evaluation
- 4. Contract Management Essentials
- 5. Cost and Price Analysis in Procurement
- 6. Negotiation Strategies for Procurement Professionals
- 7. E-Procurement and Digital Tools
- 8. Procurement Planning and Budgeting
- 9. Risk Management in Procurement
- 10. Supplier Relationship and Performance Management
- 11. Sustainable and Ethical Procurement
- 12. Total Cost of Ownership (TCO) Analysis
- 13. Make-or-Buy Decision Frameworks
- 14. Procurement Policies and Governance
- 15. Procurement in Public vs. Private Sectors
- 16. Procurement Audit and Compliance
- 17. Procurement Data Analytics and Reporting
- 18. Procurement Scorecards and KPIs
- 19. Strategic Supplier Partnerships
- 20. Category Strategy Development
- 21. Managing Global and Offshore Procurement
- 22. Negotiation Simulation Workshop
- 23. Contract Law for Procurement Managers
- 24. Cost Reduction Strategies in Procurement
- 25. Supplier Risk Assessment Models

Micro-Learning Programs in Procurement ...



- 26. Procurement Process Mapping and Improvement
- 27. Procurement Automation and AI Applications
- 28. Managing Procurement Teams Effectively
- 29. Procurement Ethics and Transparency
- 30. Procurement in the Digital Supply Chain
- 31. Vendor Consolidation Strategies
- 32. Spend Analysis and Optimization
- 33. Demand Forecasting for Procurement
- 34. E-Auction and Reverse Bidding Techniques
- 35. Inventory and Procurement Alignment
- 36. Procurement in Project-Based Organizations
- 37. Supplier Onboarding and Development
- 38. Procurement Market Intelligence
- 39. Measuring Supplier Innovation
- 40. Procurement in Times of Supply Disruption
- 41. Cross-Functional Collaboration in Procurement
- 42. Writing Effective RFPs, RFQs, and RFIs
- 43. Contract Negotiation Best Practices
- 44. Green Procurement and Circular Economy
- 45. Legal Aspects of Procurement Contracts
- 46. Performance-Based Contracting
- 47. Procurement Leadership and Strategic Influence
- 48. Cost Avoidance and Value Creation in Procurement
- 49. Managing Procurement with Power BI Dashboards
- 50. Future Skills and Trends in Procurement



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