

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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Labor/Production Scheduling and Managing HR

1. Role of Labor in Production Planning and Control

Labor is a critical resource that directly affects production capacity, lead times, and throughput. Understanding how labor integrates with the overall Manufacturing Planning & Control (MPC) system helps planners make realistic schedules and resource decisions. Labor availability and skill levels impact MPS, MRP, and capacity planning. Planners must consider constraints such as working hours, labor laws, fatigue, availability, cross-training, and overtime rules. This concept ensures that production schedules are human-resource—compatible and feasible.

2. Workforce Planning and Forecasting

Workforce planning determines how many workers with what skills are needed to meet future production requirements. It involves forecasting labor demand, evaluating current workforce supply, and identifying gaps. Planners use data from MPS, MRP, and CRP to estimate future labor needs. Workforce forecasting ensures staffing aligns with seasonal demand, product mix changes, and strategic plans. It also supports decisions on hiring, contracting, outsourcing, and training.

3. Labor Capacity and Availability

Labor capacity is determined by available working hours, utilization, efficiency, absenteeism, and skill proficiency. Planners must understand how these variables affect real working capacity versus theoretical capacity. Labor availability fluctuates based on schedules, leaves, and demand spikes. Understanding labor capacity helps match

labor resources to production schedules, reducing bottlenecks and overtime costs while improving output reliability.

4. Shift Scheduling and Staffing Models

Shift scheduling ensures the right amount of labor is available at the right time to support production requirements. Planners must work with shift patterns such as fixed shifts, rotating shifts, compressed work weeks, and weekend coverage. Shift planning must account for fatigue, legal requirements, demand patterns, and equipment availability. Mastery of staffing models helps align labor supply with demand while minimizing idle time and labor costs.

5. Cross-Training and Skill Flexibility

Cross-training employees increases labor flexibility by enabling workers to perform multiple tasks or work in different work centers. Skill-based scheduling allows planners to assign workers based on capability and workload. Cross-training reduces bottlenecks, improves responsiveness to demand changes, and stabilizes throughput. Understanding its role is essential for environments with variable product mixes or frequent schedule changes.

6. Labor Standards and Time Measurement

Labor standards define the expected time required for tasks based on normal performance under specified conditions. They include standard time, normal time, performance ratings, and allowances. These times help determine capacity, line balancing, staffing, and scheduling. Techniques such as time study, work sampling, and predetermined motion-time systems (PMTS) are used to set labor standards. Accurate labor standards are essential for realistic production plans.

7. Workforce Performance Metrics

Key labor performance indicators include productivity, efficiency, utilization, absenteeism, turnover, training hours, and labor cost per unit. These metrics help evaluate workforce performance and identify improvement opportunities. Understanding labor metrics enables planners to measure actual versus planned performance, adjust schedules, identify training needs, and improve resource allocation.

8. Labor Cost Management

Labor is often one of the highest components of production cost. Planners must understand direct and indirect labor costs, overtime premiums, contract labor costs, and cost trade-offs between labor and automation. Effective labor cost management ensures that production schedules meet demand while staying within budget. It also helps compare options like overtime versus hiring or outsourcing.

9. Managing Overtime and Alternative Capacity Options
Overtime is a key lever for meeting short-term demand
fluctuations but must be used carefully due to cost and
fatigue impacts. Planners must understand when overtime
is appropriate versus alternatives like shift changes, crosstraining, temporary labor, or subcontracting. Mastery of

overtime management ensures production meets deadlines without excessive labor costs or burnout.

10. Line Balancing

Line balancing involves assigning tasks to workstations so that each has an equal amount of work, minimizing idle time and bottlenecks. Labor plays a central role in balancing lines, especially in manual or mixed-mode operations. Proper line balancing improves throughput, reduces queues, and enhances labor efficiency. It is essential for flow manufacturing, assembly lines, and high-volume environments.

11. Work Center Staffing and Loading

Work-center staffing determines how many workers are assigned based on production load. CRP and MRP outputs help determine labor requirements at each work center. Planners must consider skill sets, labor availability, and equipment constraints. Understanding staffing and loading ensures work centers have adequate labor to meet production plans while avoiding overloads and underloads.

12. Human Resource Policies and Legal Compliance

Labor scheduling must comply with legal requirements such as working hours, breaks, overtime laws, safety standards, and labor contracts. HR policies regarding leave, training, compensation, and performance management impact labor availability. Planners must understand these constraints to ensure schedules are compliant, ethical, and sustainable.

13. Labor Flexibility and Agility

Agile labor systems enable quick adjustments in labor assignments, shift changes, and task reallocation based on operational needs. Agility is critical in environments with fluctuating demand or high product variation. This concept emphasizes the importance of flexible skills, adaptable workforce structures, and rapid communication between planning and shop floor teams.

14. Work Environment and Employee Motivation

Labor productivity is influenced by the physical work environment, ergonomics, safety, morale, and engagement. Motivated employees have higher productivity, lower absenteeism, and better quality output. Planners must consider how scheduling decisions impact morale—for example, excessive overtime reduces engagement. Understanding this concept ensures sustainable and effective labor utilization.

15. Attendance, Absenteeism, and Turnover Management Absenteeism and turnover have major impacts on labor capacity and production schedules. Planners must anticipate absenteeism rates and maintain buffer capacity or cross-trained labor. Turnover affects skill availability and requires updated training plans. Understanding these labor dynamics ensures continuity of operations and schedule adherence.

16. Training and Workforce Development

Training ensures employees have the skills needed for current and future production requirements. Workforce development supports cross-training, skill certification, and

career progression. Planners must coordinate training schedules so they don't disrupt production. Investing in training improves quality, reduces errors, increases flexibility, and supports long-term competitiveness.

17. Workforce Safety and Compliance

Safety is a core responsibility in managing labor. Unsafe environments reduce productivity, increase absenteeism, and cause regulatory penalties. Planners must incorporate safety requirements into schedules—for example, ensuring enough rest between shifts or limiting exposure to hazardous tasks. Understanding safety impacts ensures compliant, reliable, and ethical scheduling.

18. Employee Engagement and Communication

Clear communication between planners, supervisors, and employees helps ensure realistic expectations and smooth execution of schedules. Engaged employees collaborate better and adapt more readily to schedule changes. Understanding how communication systems, feedback loops, and daily meetings (e.g., Gemba walks, tier meetings) support scheduling improves operational effectiveness.

19. Collaboration Between Planning and HR Departments
Effective production scheduling requires tight collaboration
between operations planning and HR. HR provides data on
labor supply, hiring, training, and policy changes. Planning
provides forecasts and staffing needs. A strong partnership
ensures synchronized decision-making and avoids labor
shortages, compliance issues, or cost overruns.

20. Human-Centered Scheduling and Work-Life Balance

Modern scheduling practices consider the well-being of workers by prioritizing reasonable hours, predictable shifts, and fair workload distribution. Human-centered scheduling reduces fatigue, improves quality, and enhances retention. Understanding this concept helps planners design schedules that support both operational efficiency and employee welfare, creating a sustainable workforce.

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
- 3. Demand Forecasting Techniques
- 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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