



OPERATIONS RESOURCE MANAGEMENT CERTIFICATE PROGRAM



In partnership with:



California State University
SAN MARCOS

Extended
Learning



Operations Resource Management (ORM) Certificate Program

The Operations Resource Management (ORM) Certificate Program is a 7-course learning partnership developed jointly between the APICS San Diego Chapter and California State University San Marcos. This program is designed for the Operations Management professional engaged in “the field of study that focuses on the effective planning, scheduling, use and control of a manufacturing or service organization through the study of concepts from design engineering, industrial engineering, management information systems, quality management, production management, inventory management, accounting, purchasing, distribution, logistics, and other functions as they affect the organization.”

Whether looking to update your knowledge in Operations Management, learn a specific skill, or pursue CPIM certification, this program provides the knowledge and foundation needed to become more valuable and effective in today’s competitive business environment. Best of all, these classes can be taken in any order, and are also a great review for anyone taking exams to earn their CPIM certificate. For those who have already earned their CPIM, each ORM class is worth 24 APICS recertification points.

Introduction to Operations Resource Management

The most appropriate class to take first for those new to Operations Management, or for those who wish a broad review of the major topics covered in the ORM certification series and CPIM exams. Subsequent classes expand the concepts learned in this Introduction class.

This fast-moving class reviews Flow of Materials in the Supply Chain, Manufacturing Strategies, Materials Management, Production Planning and Master Scheduling, MRP (Material Requirements Planning), CRP (Capacity Requirements Planning), PAC (Production Activity Control), the Purchasing function, Forecasting and Inventory Control, Warehouse Management, Distribution concepts, Lean Production strategies, TQM (Total Quality Management) and Manufacturing Costing.

Lean Manufacturing Principles & Techniques

The concept of Lean Production has proven to be the optimal tool to produce goods and provide services efficiently through the elimination of waste while enhancing flow, which reduces the need for costly inventory investment while maximizing customer service.

This class focuses on providing techniques for scheduling and controlling production processes, executing plans, and implementing controls. Traditional principles such as PAC (Production Activity Control) are explored as are the latest Lean concepts such as 6-Sigma, Kanban, Visual Controls, the five S’s, the 7 Wastes, TOC (Theory of Constraints), Push versus Pull, Work Balancing, Kaizen events, Cellular Manufacturing, Setup Reduction, and Waste Identification and Elimination.

Inventory & Logistics Management

The storage, record keeping, and flow of inventory and its efficient transportation and delivery to customers has proven to be one of the most focused-upon elements of the modern supply chain. Inventory often comprises 50% or more of the capital outlay of a firm, and logistical efficiency has a profound effect on a company’s long-term viability.

The Inventory and Logistics Management class provides an introduction to World-Class Inventory Management tools and Logistics Principles, including Warehousing, Transportation, Supply Chain Management, and International Logistics.

Inventory Management topics include Inventory Value, Accuracy, and the strategic impact on Supply Chain management, Bill of Material accuracy, Sales, and Master Planning.

Logistics Management topics include Warehouse Management Systems and technologies, Warehouse Layouts, Order Processing Process Flows, Optimization of Inbound and Outbound Logistics, Forecasting at Regional Distribution Centers, and eliminating Wastes such as excess and obsolete inventory.

International topics include Incoterms (International Commercial Terms), Tariffs, Freight Forwarders, Shippers, Brokers, Third-Party Logistics Providers (3pls), Transportation Modes, and Consignment. Other topics include NAFTA, Supply Chain Sustainability, and Ethics in making Logistics Decisions.

Course Information:
Refer to our website at www.csusm.edu/el for specific dates, times and locations.

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Each course meets one evening a week for eight weeks, enabling you to complete the entire program in just over a year.

Course content is specifically designed so that what you learn in the classroom can be quickly applied to your work site.

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DON'T DELAY - REGISTER TODAY!
www.csusm.edu/el
or (760) 750-4020

- Each course is approved by APICS for 24 points toward APICS recertification.
- Each course is approved by the National Association of Purchasing Management (NAPM) for three points toward your Certified Purchasing Manager (CPM) designation.

Purchasing in Today's Environment

Spend management is the fastest, most direct way to create measurable, sustainable, bottom-line results. The Purchasing function has the ability to profoundly reduce a firm's cost of materials and services, and has an immediate effect on a company's financial sustainability. Long-term agreements with trusted suppliers provide visibility within the supply chain and enhance a company's ability to respond to ever-changing market demands, enabling firms to provide quality products and services at competitive prices in a timely manner.

The class will cover Procurement Organization and Objectives, Ethics, Interdepartmental Interactions, Quality Aspects, Source Selection, and Legal Considerations. Other topics include aspects of VMI (Vendor Managed Inventory), Buyer-Supplier Collaboration methods, Total Cost of Ownership Concepts, Negotiation Strategies, Make versus Buy Decisions, Global Sourcing, and Supplier Evaluation.

Managing MRP – Material Requirements Planning

The effects of an unbalanced production schedule include chaos on the shop floor, increased costs for expedited deliveries and shipping, personnel overtime costs, and constantly changing delivery dates to customers. The solution is Material Requirements Planning, which puts everyone on the same page by generating planned orders, keeping priorities straight, and keeping the schedule balanced with the use of Capacity Resource Planning.

The course includes detailed descriptions of the principles, functions, and benefits of Material Requirements Planning (MRP) and Capacity Requirements Planning (CRP). Other topics include Production Strategies and their relationship to MRP, the logic of assigning Part Numbers, types of Bills of Material (BOM), Inventory Management and Control, Order Point Concepts, Costs of Inventory, and a section describing Supply Chain Management (SCM) strategies and selection of Supplier Partners to reduce costs and maintain Supply Chain Visibility.

Forecasting and Master Planning the Supply Chain

The inability to obtain from a customer (or internally calculate for a supplier) an accurate and timely forecast will inevitably result in undesirable outcomes. Effects can range from the whiplash phenomenon that results in costly overproduction with resultant excess inventory, or costly stockouts that alienate the consumer, perhaps forcing them to turn to a direct competitor.

Forecasting and Master Planning the Supply Chain provides an introduction to world-class sales forecasting techniques that drive Operations and Supply Chain Management. Such techniques as Weighted Moving Average, Exponential Smoothing, Box-Jenkins, and Seasonality are explored. The Planning Hierarchy is discussed, including Sales and Operations Planning (S&OP), Master Scheduling, Available to Promise (ATP), the value of establishing Time Fences, Distribution Requirements Planning (DRP), and Capacity Concepts such as Rough-Cut Capacity Planning. Planning BOMs and the effects of Configure-To-Order Manufacturing are discussed at length as ways to simplify planning and forecasting.

Enterprise Strategic Planning and Operations

A company cannot grow unless the Organizational Structure, Functional Departments, and Internal Technology are in alignment to support the Strategic Business Plan. And as a company grows, different demands are placed upon every functional group and system the company uses. Change is inevitable, and a process must be in place to manage it.

This class will teach how to align resources with the Strategic Plan, configure Operating Processes to support the Strategic Plan, and implement Process Change. Additionally, the relationship between existing and emerging processes and technologies, Manufacturing Strategy, and Supply Chain-related functions will be explored. Primary focus will be on three main topics: 1) Aligning Resources with the Strategic Plan, 2) Configuring and Integrating Operating Processes to Support the Strategic Plan, and 3) Implementing Change. Project Management Fundamentals will be covered, as well as Organizational Structure, Technology Evaluation Criteria, Competitive Environment Scanning, Performance Objectives, Leadership Hierarchies, Product Life Cycle, and Product & Service Development.

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“The Operations Resource Management Certificate Program provides a wonderful opportunity to learn from some of the most knowledgeable and dedicated professionals in the field of Operations Management. The instructor’s passion and commitment to knowledge was contagious, and the course work was challenging and enlightening. I heartily endorse this program.”

–Gordon Danielson, CPIM, CSCP
 Director of Continuing Education, APICS San Diego

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EMPOWER YOURSELF WITH KNOWLEDGE

- ▶ Learn effective Manufacturing, Operations, and Supply Chain Management techniques
- ▶ Network with other experienced Operations and Supply Chain Management professionals
- ▶ Prepare for the APICS Certified in Production and Inventory Management (CPIM) exam
- ▶ Earn certification points to maintain your CPIM
- ▶ Advance your productivity, innovation, and competitive success!

In partnership with:



APICS (the Association for Operations Management) is a non-profit education organization and the provider of the APICS Body of Knowledge in Operations Management. Areas of study include Production, Inventory, Supply Chain, Materials Management, Purchasing, and Logistics.

APICS was founded in 1957 as the American Production and Inventory Control Society. Today there are 265 domestic APICS chapters and 33 International Associate chapters supporting nearly 50,000 members in 20,000 manufacturing and service industry companies worldwide. APICS awards two professional designations: APICS CPIM (Certified in Production and Inventory Management), and APICS CSCP (Certified Supply Chain Professional).

APICS (www.apics.org or apics-sd.org for San Diego chapter)

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San Marcos, CA 92096-0001

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