

PRODUCTION, DEMAND PLANNING & INTEGRATED INVENTORY OPTIMIZATION

“Balancing Supply and Demand for Optimal Inventory Performance”

Schedule

Date	Venue	Fees (Face-to-Face)
04 – 05 Mar 2026	Manama, Bahrain	USD 1995 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Efficient production planning, demand forecasting, and inventory management are critical for ensuring the smooth flow of materials and products across the supply chain. Organizations that fail to align production and inventory with customer demand often face stockouts, excess inventory, and increased operational costs.

This intensive 2-day training provides participants with practical techniques and tools to integrate production planning, demand forecasting, and inventory optimization. Participants will learn to streamline processes, improve inventory turnover, reduce waste, and ensure timely product availability to meet business objectives.

Objectives

- By the end of this course, participants will be able to:
- Understand production planning, demand forecasting, and inventory optimization concepts
 - Develop accurate demand forecasts using quantitative and qualitative methods
 - Align production schedules with demand and inventory policies
 - Optimize inventory levels across the supply chain
 - Reduce stockouts, overstock, and associated carrying costs
 - Implement integrated planning systems for better operational efficiency
 - Enhance decision-making through data-driven planning techniques

Why Attend

- Learn to forecast demand accurately and reduce forecasting errors
- Align production schedules with real-time demand
- Optimize inventory levels to minimize costs and maximize service levels
- Improve supply chain efficiency and responsiveness
- Reduce waste and improve operational profitability
- Apply practical tools and techniques immediately in your organization

Target Audience

This program is designed for:

- Production planners and operations managers
- Inventory and warehouse managers
- Supply chain and logistics professionals
- Demand planners and forecasting analysts
- Procurement and materials management personnel
- Professionals involved in production scheduling and inventory control

Individual Benefits

Key competencies that will be developed include:

- Accurate demand forecasting and production planning skills
- Inventory optimization and stock management techniques
- Knowledge of integrated supply chain planning systems
- Skills to reduce operational costs and improve service levels
- Enhanced analytical and decision-making capabilities
- Ability to implement best practices in inventory and production management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved alignment of production and inventory with demand
- Optimized inventory levels reducing carrying costs and obsolescence
- Enhanced supply chain efficiency and customer satisfaction
- Data-driven decision-making in production and inventory management
- Better coordination across departments for seamless operations
- Increased profitability and operational resilience

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Deep dive into production planning, demand forecasting, and inventory management concepts
- Case Studies – Real-world examples of integrated inventory optimization and supply chain success
- Workshops – Hands-on exercises in demand forecasting, production scheduling, and inventory optimization
- Peer Exchange – Group discussions on challenges and best practices in supply chain planning
- Tools – Templates and frameworks for forecasting, production planning, and inventory control

Course Outline

Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules Coffee Breaks: 09:30 & 11:15 Lunch Buffet: 01:00 – 02:00

Day 1: Production Planning & Demand Forecasting

Module 1: Introduction to Production Planning (07:30 – 09:30)

- Importance of production planning and inventory management
- Key challenges and success factors

Module 2: Demand Forecasting Techniques (09:45 – 11:15)

- Quantitative and qualitative forecasting methods
- Managing forecast accuracy and variability

Module 3: Aligning Production with Demand (11:30 – 01:00)

- Creating effective production schedules
- Balancing capacity and demand

Module 4: Workshop – Forecasting & Production Planning (02:00 – 03:30)

- Practical exercises on forecasting and scheduling

Day 2: Integrated Inventory Optimization

Module 1: Inventory Management Fundamentals (07:30 – 09:30)

- Types of inventory and key metrics
- Safety stock, reorder points, and lead time considerations

Module 2: Inventory Optimization Techniques (09:45 – 11:15)

- Integrated planning for cost reduction and service improvement
- Balancing stock levels across the supply chain

Module 3: Technology & Systems for Integrated Planning (11:30 – 01:00)

- ERP and supply chain planning tools
- Data-driven inventory decision-making

Module 4: Workshop – Integrated Inventory & Action Planning (02:00 – 03:30)

- Developing actionable plans for inventory and production optimization
- Course review and Q&A

Certification

Participants will receive a Certificate of Completion in Production, Demand Planning & Integrated Inventory Optimization, recognizing their competence in managing production, demand, and inventory processes effectively to achieve operational efficiency and supply chain excellence.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: +601116373203	EMAIL: info@mawaevents.net
--	---	---

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.