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PROCUREMENT AND SUPPLY CHAIN MANAGEMENT | PSCM-017

# Artificial Intelligence (AI) in Warehouse Operations & Optimization

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# Course content

## Why Attend

Why Attend The integration of Artificial Intelligence into warehouse operations is transforming how organizations manage inventory, optimize resources, and improve operational efficiency. This course provides participants with practical knowledge and modern approaches for utilizing AI technologies to improve warehouse performance, enhance decision-making, reduce operational costs, and support smart warehouse transformation initiatives.

Course Methodology The course combines practical workshops, case studies, interactive discussions, simulations, demonstrations of AI applications, analytical exercises, and real-world warehouse scenarios to ensure practical understanding and implementation.

Course Objectives By the end of this course, participants will be able to:

- Understand the role of AI in modern warehouse operations
- Apply AI concepts to inventory and warehouse optimization processes
- Improve forecasting and inventory planning effectiveness
- Enhance warehouse layout, picking, and fulfillment efficiency
- Utilize AI for workforce planning and predictive maintenance
- Integrate AI technologies with warehouse systems and operations
- Measure performance improvements and develop implementation strategies

## Target Audience

- Warehouse managers and supervisors
- Supply chain and logistics professionals
- Inventory and materials managers
- Operations managers
- Distribution and fulfillment specialists
- Warehouse planners and analysts



# Course content

## Target Audience

• Professionals involved in digital transformation initiatives

## Target Competencies

• AI-enabled warehouse management

• Inventory optimization

• Demand forecasting

• Data-driven decision-making

• Operational planning

• Performance analysis

• Process improvement

• Strategic thinking and innovation

## Course outline

### Day 1: Introduction to AI and Smart Warehouse Foundations

• Understanding warehouse operations and common operational challenges

• Exploring the fundamentals of artificial intelligence and machine learning concepts

• Understanding the importance of data in intelligent warehouse decisions

• Reviewing warehouse data sources and quality requirements

• Understanding the capabilities of AI-supported warehouse management systems

• Reviewing practical examples of AI applications within warehouse environments

### Day 2: AI Applications in Inventory Management and Demand Planning

• Understanding inventory planning challenges and inventory cost factors

• Exploring AI-supported forecasting techniques and predictive models



# Course content

## Course outline

• Optimizing inventory levels and stock availability strategies

• Reducing excess inventory, shortages, and non-moving stock risks

• Aligning inventory forecasts with purchasing and replenishment activities

• Applying practical inventory optimization exercises and scenarios

**Day 3: Warehouse Process Optimization and Order Management**

• Improving warehouse layout and storage allocation strategies using intelligent methods

• Enhancing picking processes and route efficiency through AI-supported techniques

• Optimizing order processing, sequencing, and workload distribution

• Improving order accuracy and customer fulfillment performance

• Increasing operational visibility through real-time information systems

• Understanding simulation approaches and digital warehouse modeling concepts

**Day 4: Workforce Performance and Asset Optimization**

• Applying AI approaches for workforce planning and productivity analysis

• Improving workforce scheduling and operational performance management

• Understanding predictive maintenance methods for warehouse equipment

• Reducing equipment failures and maintenance-related disruptions

• Enhancing workplace safety through intelligent monitoring systems

• Supporting workforce adaptation and change management initiatives

**Day 5: AI Strategy and Smart Warehouse Transformation**

• Integrating AI solutions with warehouse technologies and enterprise systems

• Understanding governance, cybersecurity, and ethical considerations related to AI implementation

• Measuring operational improvements and evaluating return on investment



# Course content

## Course outline

- Developing implementation strategies for warehouse transformation initiatives
- Managing implementation risks and operational challenges
- Practical workshop: Building a smart warehouse optimization and transformation model



# Seminar dates

## Available seminar dates

Live dates and pricing for Artificial Intelligence (AI) in Warehouse Operations & Optimization generated from the course details page.

| Date | Location | Format | Fee |
|---|---|---|---|
| 9 - 13 November 2026 | London - U.K | Classroom | **€3,360.-** |
| 16 - 20 November 2026 | Munich - Germany | Classroom | **€3,400.-** |
| 7 - 11 December 2026 | Madrid - Spain | Classroom | **€3,400.-** |
| 14 - 18 December 2026 | Geneva - Switzerland | Classroom | **€4,200.-** |
| 21 - 25 December 2026 | Istanbul - Turkey | Classroom | **€2,760.-** |
| 4 - 8 January 2027 | Kuala lumpur - Malaysia | Classroom | **€1,800.-** |
| 1 - 5 February 2027 | Amsterdam - Netherlands | Classroom | **€3,400.-** |
| 1 - 5 March 2027 | London - U.K | Classroom | **€3,360.-** |
| 5 - 9 April 2027 | Kuala lumpur - Malaysia | Classroom | **€1,800.-** |
| 3 - 7 May 2027 | Amsterdam - Netherlands | Classroom | **€3,400.-** |
| 7 - 11 June 2027 | London - U.K | Classroom | **€3,360.-** |
| 5 - 9 July 2027 | Barcelona - Spain | Classroom | **€3,080.-** |
| 2 - 6 August 2027 | Munich - Germany | Classroom | **€3,400.-** |
| 6 - 10 September 2027 | London - U.K | Classroom | **€3,360.-** |
| 4 - 8 October 2027 | Munich - Germany | Classroom | **€3,400.-** |
| 1 - 5 November 2027 | Dubai - UAE | Classroom | **€2,040.-** |
| 6 - 10 December 2027 | Geneva - Switzerland | Classroom | **€4,200.-** |