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PROCUREMENT AND SUPPLY CHAIN MANAGEMENT | PSCM-017

Artificial Intelligence (AI) in Warehouse Operations & Optimization

UK
+44 33 000 111 90
info@informatech.co.uk
https://informatech.co.uk
63-66 Hatton Garden Hatton Garden
EC1N 8LE , London

NL
+31 85 74 444 46
info@infomatech.nl
https://infomatech.nl
Waarderweg 50 - 2031PB
Haarlem - Netherlands



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
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.-**

Live online option	Online delivery is available at €1,850.-.