



Smart Warehouse Digital Twin and AI Operations Course

14 – 18 December 2026
Baku

Smart Warehouse Digital Twin and AI Operations Course

Ref: 330_127609 **Date:** 14 – 18 December 2026 **Location:** Baku **Fees:** 5000 Euro

Overview

The Smart Warehouse Digital Twin and AI Operations Course is a five-day intermediate course for warehouse, logistics, supply chain, analytics, automation, and transformation teams who leave with a Smart Warehouse Implementation Roadmap. The course connects warehouse process mapping, IoT data, systems integration, inventory visibility, forecasting, slotting, labor and equipment planning, digital twin simulation, predictive maintenance, safety awareness, performance analytics, economics, and governance. Agile Leaders Training Center delivers this course on smart warehouse digital twins and AI operations.

Who Should Attend

- Teams responsible for warehouse flow, inventory accuracy, and service performance
- Logistics functions responsible for receiving, storage, picking, packing, and dispatch
- Supply chain teams responsible for inventory planning and fulfillment decisions
- Analytics functions responsible for forecasts, operational indicators, and improvement evidence
- Engineering teams responsible for automation, equipment, sensors, and integration
- Transformation leaders responsible for technology investment and implementation governance

The course assumes participants work with warehouse operations or technology decisions and leaves out software development, equipment installation, and specialist safety certification.

Departments and Industries

The course supports warehouse improvement across distribution and production environments.

- Warehousing, logistics, and distribution
- Retail, ecommerce, and consumer goods
- Manufacturing and industrial supply
- Healthcare and pharmaceutical distribution
- Food, hospitality, and cold-chain operations

Learning Objectives

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



- Analyze warehouse processes and prioritize digital use cases
- Build an IoT, systems, and operational data map
- Apply forecasting, slotting, labor, and equipment planning methods
- Evaluate digital twin simulations and predictive maintenance signals
- Compare safety, economics, governance, and performance controls
- Create a Smart Warehouse Implementation Roadmap

Course Agenda

Day 1: Warehouse Processes and Digital Use Cases

- Warehouse Process and Decision Mapping Canvas
- Smart Warehouse Use Case Prioritization Matrix
- Inventory Flow and Visibility Map
- Operational Constraint and Baseline Register
- Value Risk and Feasibility Scorecard

Day 2: IoT Systems and Operational Data

- Warehouse Management System Interface Map
- IoT Sensor and Tracking Technology Matrix
- Warehouse Data Model and Quality Protocol
- System Integration and Interoperability Checklist
- Data Ownership and Access Control Matrix

Day 3: Planning Forecasting and Optimization

- Inventory Demand Forecasting Workflow
- Storage Slotting Optimization Model
- Picking Packing and Routing Decision Grid
- Labor Capacity and Shift Planning Board
- Material Handling Equipment Utilization Model

Day 4: Digital Twin Performance and Governance

- Warehouse Digital Twin Architecture Map
- Operational Scenario Simulation Method
- Predictive Maintenance Indicator Register
- Warehouse Safety Awareness and Monitoring Review
- Performance Economics and Governance Dashboard



Day 5: Smart Warehouse Practice

- Suggested Exercise: Digital Use Case Selection
- Suggested Exercise: IoT System and Data Mapping
- Suggested Exercise: Planning and Simulation Scenario
- Suggested Exercise: Performance Economics and Governance Review
- Capstone Exercise: Smart Warehouse Implementation Roadmap

Practical Exercises

The course includes suggested activities for converting warehouse evidence into technology and operating decisions.

- Suggested activity: map inventory flow and prioritize digital use cases for a distribution center.
- Suggested activity: design a connected data flow across tracking devices and warehouse systems.
- Suggested activity: compare slotting, labor, equipment, and digital twin scenarios.
- Suggested activity: present a Smart Warehouse Implementation Roadmap with economics, controls, indicators, and phased actions.

FAQs

Who suits the Smart Warehouse Digital Twin and AI Operations Course?

Warehouse, logistics, supply chain, analytics, engineering, and transformation teams suit the course; it assumes involvement in warehouse operations or technology decisions rather than software development or equipment installation.

How does a smart warehouse course differ from general warehouse management training?

A smart warehouse course connects operating methods with IoT data, system integration, AI analytics, digital twin simulation, predictive maintenance, and technology governance, while general training may emphasize established warehouse procedures.

How does a digital twin support warehouse decisions?

A warehouse digital twin represents processes, resources, constraints, and operating data so teams can compare scenarios, recognize bottlenecks, test changes, and review consequences before operational implementation.

How can AI improve warehouse inventory and resource planning?

AI can identify demand and operating patterns that support forecasts, slotting choices, labor plans, equipment allocation, anomaly alerts, and defined improvement decisions subject to human review.



What belongs in a Smart Warehouse Implementation Roadmap?

A Smart Warehouse Implementation Roadmap links needs, use cases, process maps, systems, sensors, data, analytical methods, twin scenarios, safety awareness, economics, governance, owners, indicators, and phased actions.

Conclusion

Participants leave with a Smart Warehouse Implementation Roadmap linking operating needs, connected systems, data, simulations, AI decisions, controls, and ownership. The work product improves how warehouse technology initiatives are prioritized and governed. It gives logistics and operations teams a reusable structure for implementation, performance review, and subsequent decisions.