Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Warehouse Digital Twins Intro Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

Warehouse Digital Twins Intro Training Course

Logistics and Supply Chain Management • 5 Days Intensive • Accredited Certification

Course Overview

Warehouse Digital Twins Intro Training Course provides an immersive learning experience that equips participants with practical knowledge and technical skills to simulate, monitor, and optimize warehouse operations using digital twin technology.

Key Skills & Software Tools Covered

MS Word • AnyLogic • FlexSim • and Siemens Tecnomatix Plant Simulation

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
23 Feb 2026 – 27 Feb 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Feb 2026 – 27 Feb 2026	Accra	Classroom / 5d	**$4,000 USD / KES 110,000**
2 Mar 2026 – 6 Mar 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
2 Mar 2026 – 6 Mar 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
2 Mar 2026 – 6 Mar 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Warehouse Digital Twins Intro Training Course

Introduction

The modern warehouse environment is rapidly evolving, driven by technological advancements and the increasing demand for operational efficiency. Warehouse Digital Twins Intro Training Course provides an immersive learning experience that equips participants with practical knowledge and technical skills to simulate, monitor, and optimize warehouse operations using digital twin technology. This course integrates industry-relevant tools, innovative strategies, and real-world scenarios to prepare participants for managing complex warehouse processes, improving productivity, and reducing operational costs. Participants will gain insights into digital twin modeling, predictive analytics, and data-driven decision-making, enabling them to stay competitive in the fast-paced logistics and supply chain sector.

By leveraging cutting-edge technology, this course bridges the gap between physical warehouse operations and virtual simulations. It focuses on enhancing operational visibility, real-time monitoring, and process optimization through digital twin platforms. Participants will explore advanced digital twin applications, including inventory management, space utilization, automated workflows, and risk mitigation strategies. The course emphasizes hands-on experience, case studies, and practical applications to ensure participants can implement digital twin solutions effectively within their organizations. This approach promotes data-driven insights, continuous improvement, and sustainable warehouse management practices.

Course Objectives

- Understand the fundamentals of warehouse digital twin technology and its applications.
- Explore the role of digital twins in modern warehouse operations and logistics.
- Learn how to model warehouse processes using digital twin platforms.
- Analyze warehouse data to optimize operational efficiency and reduce costs.
- Apply predictive analytics for inventory forecasting and demand planning.
- Develop real-time monitoring solutions for warehouse performance.
- Implement automation strategies using digital twin simulations.
- Integrate warehouse digital twins with enterprise resource planning systems.
- Understand risk assessment and mitigation through virtual simulations.
- Improve warehouse layout planning and space utilization using digital twins.
- Evaluate performance metrics and KPIs using digital twin analytics.
- Gain practical experience through case studies and hands-on exercises.
- Promote sustainable and innovative warehouse management practices.

Organizational Benefits

- Improved operational efficiency and productivity.
- Reduced warehouse operational costs and waste.
- Enhanced decision-making using real-time data and analytics.
- Optimized inventory management and storage solutions.
- Better risk assessment and mitigation strategies.
- Streamlined warehouse workflow and process automation.
- Enhanced visibility of warehouse operations for management.
- Improved customer satisfaction through faster order fulfillment.
- Strengthened competitiveness in the logistics and supply chain sector.
- Encouraged adoption of digital innovation and sustainable practices.

Target Audiences

- Warehouse managers and supervisors
- Logistics and supply chain professionals
- Operations managers
- Inventory planners and analysts
- IT specialists in logistics technology
- Industrial engineers
- Supply chain consultants
- Professionals seeking digital transformation knowledge in warehouse operations

Course Duration: 5 days

Course Modules

Module 1: Introduction to Warehouse Digital Twins

- Definition and concept of digital twins
- Benefits and challenges of digital twin adoption
- Key technologies and tools
- Industry applications
- Implementation considerations
- Case study: Successful digital twin adoption in a regional warehouse

Module 2: Warehouse Process Mapping

- Mapping workflows and operational processes
- Identifying key warehouse activities
- Digital twin modeling techniques
- Process improvement opportunities
- Integration with ERP systems
- Case study: Process mapping for a large-scale distribution center

Module 3: Inventory Management with Digital Twins

- Real-time inventory monitoring
- Stock level optimization
- Predictive demand forecasting
- Automated replenishment strategies
- Analytics dashboards and reporting
- Case study: Inventory optimization in e-commerce warehouses

Module 4: Warehouse Layout Optimization

- Space utilization analysis
- Storage system design with digital twins
- Flow optimization for picking and packing
- Simulation of layout changes
- Reducing bottlenecks and delays
- Case study: Layout redesign for high-volume warehouse

Module 5: Automation and Robotics Integration

- Role of automation in digital twins
- Integration with automated storage systems
- Robotics for picking and packing
- Simulation of automated workflows
- Monitoring and performance evaluation
- Case study: Automation integration in a fulfillment center

Module 6: Real-Time Monitoring and IoT

- IoT sensors and devices
- Data collection and processing
- Dashboard visualization
- Alert systems for operational anomalies
- Predictive maintenance monitoring
- Case study: Real-time warehouse monitoring implementation

Module 7: Predictive Analytics and Decision Making

- Data analytics for forecasting
- Performance metric evaluation
- Scenario planning and simulations
- KPI-driven decision-making
- Continuous improvement strategies
- Case study: Predictive analytics for seasonal demand

Module 8: Risk Assessment and Compliance

- Identifying operational risks
- Safety and compliance monitoring
- Emergency response simulations
- Risk mitigation strategies
- Reporting and audit preparation
- Case study: Risk management in hazardous material warehouse

Training Methodology

- Interactive instructor-led sessions
- Hands-on practical exercises
- Real-world case studies
- Simulation exercises using digital twin platforms

- Group discussions and problem-solving sessions
- Q&A and feedback sessions

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/warehouse-digital-twins-intro-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.