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

Digital Twins for Logistics 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

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

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Digital Twins for Logistics Training Course

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

Course Overview

Digital Twins for Logistics Training Course provides participants with practical knowledge and hands-on skills to implement digital twin technologies, enhancing operational efficiency, predictive maintenance, and data-driven decision-making.

Key Skills & Software Tools Covered

MS Word • AnyLogic • FlexSim • and Simio

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

Digital Twins for Logistics Training Course

Introduction

The logistics and supply chain industry is undergoing a significant transformation through digital innovation. Digital Twins, as advanced virtual replicas of physical systems, offer unprecedented capabilities to model, simulate, and optimize logistics operations. Digital Twins for Logistics Training Course provides participants with practical knowledge and hands-on skills to implement digital twin technologies, enhancing operational efficiency, predictive maintenance, and data-driven decision-making. By leveraging cutting-edge simulation tools, analytics, and real-time data integration, organizations can achieve streamlined workflows, cost reductions, and superior customer satisfaction.

Participants will explore end-to-end digital twin frameworks, including the design, deployment, and integration of digital models within logistics networks. The course emphasizes scenario analysis, performance monitoring, and predictive forecasting to mitigate risks and improve supply chain resilience. Attendees will also gain insights into how digital twins can transform warehouse management, transportation, inventory planning, and demand forecasting. By the end of the course, participants will be equipped to drive innovation and implement digital twin solutions to achieve measurable organizational benefits and strategic competitiveness.

Course Objectives

- Understand the core principles and architecture of digital twins in logistics.
- Explore real-time data integration and IoT connectivity for digital twin modeling.
- Learn predictive analytics and simulation techniques for supply chain optimization.
- Apply digital twin technology to warehouse management and inventory control.
- Develop digital twin models for transportation and fleet management.
- Identify performance metrics and KPIs for logistics systems.
- Conduct scenario planning and risk mitigation using digital twins.
- Integrate AI-driven insights into logistics decision-making.
- Understand cloud platforms and digital twin software applications.
- Analyze cost-benefit scenarios for digital twin implementation.
- Examine case studies on digital twin adoption in global logistics.
- Develop strategies for digital twin governance and security.
- Enhance organizational agility and operational resilience using digital twins.

Organizational Benefits

- Enhanced supply chain visibility and transparency
- Improved operational efficiency and productivity
- Reduced operational costs and waste
- Data-driven decision-making capabilities
- Predictive maintenance and risk management
- Faster response to market and demand changes
- Optimized inventory management and warehousing
- Streamlined transportation and fleet operations
- Improved customer satisfaction and service delivery
- Competitive advantage through innovation and technology adoption

Target Audiences

- Supply chain managers and professionals
- Logistics operations planners
- IT and systems engineers in logistics
- Data analysts and business intelligence professionals
- Warehouse managers and supervisors
- Transportation and fleet management personnel
- Digital transformation officers
- Consultants and strategists in supply chain optimization

Course Duration: 5 days

Course Modules

Module 1: Introduction to Digital Twins

- Overview of digital twin technology in logistics
- Key components and architecture
- Historical evolution and trends
- Implementation challenges and solutions
- Industry applications and benefits
- Case Study: Digital twins in Amazon warehouse operations

Module 2: IoT and Data Integration for Digital Twins

- IoT sensors and connectivity in logistics
- Real-time data collection and integration
- Data visualization and analytics
- Cloud-based data storage solutions
- Integration with ERP and WMS systems
- Case Study: DHL's IoT-enabled digital twin logistics model

Module 3: Predictive Analytics and Simulation Techniques

- Predictive modeling for demand forecasting
- Simulation tools and methodologies
- Scenario planning and risk assessment
- AI-based predictive maintenance
- Optimization of logistics processes
- Case Study: Maersk predictive analytics for shipping optimization

Module 4: Warehouse Digital Twin Management

- Layout modeling and simulation
- Automated inventory tracking
- Performance monitoring
- Workflow optimization
- Cost-benefit analysis of digital twin implementation
- Case Study: Walmart's warehouse automation with digital twins

Module 5: Transportation and Fleet Optimization

- Fleet modeling and routing simulation
- Real-time vehicle tracking and monitoring
- Maintenance and fuel optimization
- Dynamic scheduling and dispatch
- KPIs for fleet performance
- Case Study: UPS digital twin fleet operations

Module 6: Performance Metrics and KPIs

- Key logistics KPIs
- Monitoring digital twin outcomes
- Benchmarking and continuous improvement
- Data visualization dashboards
- KPI-driven decision making
- Case Study: FedEx digital twin performance analysis

Module 7: Digital Twin Software and Cloud Platforms

- Overview of popular digital twin software
- Cloud deployment models
- Integration with existing logistics systems
- Software evaluation and selection
- Security and compliance considerations
- Case Study: Siemens MindSphere for logistics optimization

Module 8: Implementation, Governance, and Strategy

- Planning digital twin adoption
- Governance frameworks and standards
- Cost and ROI analysis
- Staff training and change management
- Strategic alignment with organizational goals
- Case Study: DHL supply chain digital twin roadmap

Training Methodology

- Interactive lectures and concept discussions
- Hands-on simulation exercises with logistics software
- Real-life case study analysis and group discussions
- Role-play and scenario-based problem solving

- Step-by-step digital twin modeling exercises
- Q&A sessions with industry experts

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/digital-twins-for-logistics-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.