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

ARCHITECTURAL ENGINEERING

BIM Data Visualization Dashboards Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
10 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

BIM Data Visualization Dashboards Training Course

Architectural Engineering • 10 Days Intensive • Accredited Certification

Course Overview

BIM Data Visualization Dashboards Training Course equips professionals with cutting-edge skills in data integration, visualization design, dashboard development, and predictive analytics tailored for BIM workflows

Key Skills & Software Tools Covered

Data visualization • BIM analytics • Dashboard design • Performance tracking

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)
27 Apr 2026 – 8 May 2026	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Apr 2026 – 8 May 2026	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
11 May 2026 – 22 May 2026	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
11 May 2026 – 22 May 2026	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
11 May 2026 – 22 May 2026	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**

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

Course Curriculum & Modules

BIM Data Visualization Dashboards Training Course

Introduction

In today’s data-driven Architecture, Engineering, and Construction (AEC) landscape, BIM Data Visualization Dashboards are transforming how project stakeholders interpret, analyze, and act on complex building information. By integrating Building Information Modeling (BIM) with advanced data analytics, real-time reporting, and interactive dashboards, organizations can unlock powerful insights into project performance, cost control, scheduling, and risk mitigation. Tools like Power BI, Tableau, and Autodesk BIM 360 enable seamless visualization of multidimensional BIM data, enhancing decision-making across the entire project lifecycle.

BIM Data Visualization Dashboards Training Course equips professionals with cutting-edge skills in data integration, visualization design, dashboard development, and predictive analytics tailored for BIM workflows. Participants will learn how to connect BIM models with databases, create interactive KPIs, and deploy cloud-based dashboards for real-time collaboration. With the rise of Digital Twins, AI in construction, and smart infrastructure, mastering BIM dashboarding is becoming a critical competency for future-ready professionals seeking to drive efficiency, sustainability, and innovation in the built environment.

Course Duration

10 days

Course Objectives

- Master BIM Data Integration with real-time analytics
- Develop interactive dashboards using modern BI tools
- Implement data-driven decision-making in construction projects
- Apply AI-powered insights to BIM datasets
- Design user-centric visualization interfaces
- Utilize cloud-based BIM platforms for collaboration
- Optimize project performance tracking dashboards
- Create predictive analytics models for risk management
- Integrate IoT data streams into BIM dashboards
- Build Digital Twin visualization frameworks
- Enhance cost and schedule visualization techniques
- Automate data pipelines and reporting workflows
- Ensure data governance and cybersecurity compliance

Target Audience

- BIM Engineers and Coordinators
- Architects and Design Professionals
- Construction Project Managers
- Data Analysts in AEC Industry
- Civil and Structural Engineers
- Facility Managers and Asset Managers
- Digital Transformation Consultants
- Students and Researchers in BIM & Smart Cities

Course Modules

Module 1: Introduction to BIM & Data Visualization

- BIM fundamentals and lifecycle
- Role of data visualization in AEC
- Overview of dashboard tools
- Data types in BIM models
- Case Study: BIM adoption in smart city projects

Module 2: BIM Data Structures & Standards

- IFC, COBie standards
- Data schemas and interoperability
- Structured vs unstructured data
- Data extraction techniques
- Case Study: Standardized BIM workflows

Module 3: Data Analytics for BIM

- Basics of data analytics
- KPI identification for projects
- Data cleaning and transformation
- Visualization-ready datasets
- Case Study: Project performance analytics

Module 4: Dashboard Design Principles

- UI/UX best practices
- Visual storytelling techniques
- Color theory and layout
- User interaction design
- Case Study: Effective dashboard design

Module 5: Tools for BIM Visualization

- Overview of Power BI
- Using Tableau
- Integration with Autodesk Revit
- Data connectors and APIs
- Case Study: Multi-tool integration

Module 6: Data Integration Techniques

- Linking BIM with databases
- API-based data extraction
- Cloud data integration
- Real-time data streaming
- Case Study: Integrated BIM dashboards

Module 7: Advanced Dashboard Development

- Interactive filters and drill-downs
- Dynamic reporting
- Custom visuals creation
- Embedding dashboards
- Case Study: Executive dashboards

Module 8: Cloud-Based BIM Dashboards

- Cloud platforms overview
- Collaboration workflows
- Data synchronization
- Security considerations
- Case Study: Cloud BIM implementation

Module 9: IoT & Real-Time Data in BIM

- IoT integration concepts
- Sensor data visualization
- Real-time monitoring dashboards
- Smart building analytics
- Case Study: IoT-enabled construction site

Module 10: Digital Twin Visualization

- Digital Twin concepts
- BIM to Digital Twin transition
- Simulation and visualization
- Predictive maintenance dashboards
- Case Study: Smart infrastructure project

Module 11: AI & Predictive Analytics

- AI applications in BIM
- Machine learning basics
- Predictive modeling
- Risk analysis dashboards
- Case Study: AI-driven construction insights

Module 12: Cost & Schedule Visualization

- 4D and 5D BIM concepts
- Budget tracking dashboards
- Schedule performance metrics
- Earned value analysis

- Case Study: Cost optimization

Module 13: Automation & Workflow Optimization

- Data pipeline automation
- Script-based integrations
- Workflow optimization
- Reporting automation
- Case Study: Automated BIM reporting

Module 14: Data Governance & Security

- Data privacy regulations
- Cybersecurity in BIM
- Access control
- Data quality management
- Case Study: Secure BIM environment

Module 15: Capstone Project

- End-to-end dashboard development
- Real-world dataset application
- Presentation and storytelling
- Peer review and feedback
- Case Study: Industry-level project

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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/bim-data-visualization-dashboards-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.