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

DEMOGRAPHY AND POPULATION STUDIES

Health Data & Population Surveillance 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

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

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Health Data & Population Surveillance Training Course

Demography and Population Studies • 5 Days Intensive • Accredited Certification

Course Overview

Health Data & Population Surveillance Training Course equips healthcare professionals with cutting-edge tools and methodologies to enhance surveillance, reporting, and population health analysis, ensuring improved outcomes and resource optimization.

Key Skills & Software Tools Covered

MS Word • DHIS2 • Epi Info • and Tableau

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)
16 Feb 2026 – 20 Feb 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
16 Feb 2026 – 20 Feb 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 90,000**
16 Feb 2026 – 20 Feb 2026	Accra	Classroom / 5d	**$4,000 USD / KES 90,000**
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 90,000**
23 Feb 2026 – 27 Feb 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**

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

Course Curriculum & Modules

Health Data & Population Surveillance Training Course

Introduction

In today's dynamic healthcare environment, the ability to accurately collect, analyze, and interpret health data has become crucial for informed decision-making and population health management. This course provides essential skills to track disease patterns, monitor public health trends, and implement evidence-based interventions. Health Data & Population Surveillance Training Course equips healthcare professionals with cutting-edge tools and methodologies to enhance surveillance, reporting, and population health analysis, ensuring improved outcomes and resource optimization. Participants will gain hands-on experience in using digital platforms, epidemiological techniques, and statistical models to strengthen health system performance and public health policies.

This training emphasizes practical applications of health data analytics, population monitoring, and disease surveillance to empower organizations with actionable insights. Learners will explore the integration of big data, electronic health records, and geographic information systems in public health surveillance. The course also highlights ethical considerations, data privacy, and compliance with international health standards. By the end of the program, participants will be able to translate raw health data into meaningful insights that drive strategic planning, policy development, and community health improvements.

Course Objectives

1. Understand principles of health data collection and population surveillance.
2. Utilize epidemiological methods for disease monitoring and outbreak detection.
3. Apply advanced statistical tools and software for health data analysis.
4. Integrate big data and digital health tools for population health tracking.
5. Conduct effective health risk assessments using real-world datasets.
6. Implement health information systems for timely reporting and decision-making.
7. Develop predictive models for disease forecasting and trend analysis.
8. Strengthen capacity in geospatial mapping and population health visualization.
9. Promote data-driven policy formulation for public health interventions.
10. Ensure ethical use, privacy, and security of health data in compliance with standards.
11. Evaluate surveillance program effectiveness and provide actionable recommendations.
12. Build competency in cross-sector collaboration for health monitoring initiatives.
13. Enhance research skills for public health studies using population datasets.

Organizational Benefits

· Improved public health decision-making.
· Enhanced efficiency in disease monitoring and reporting.
· Strengthened data-driven strategic planning.
· Better allocation of healthcare resources.
· Increased compliance with health regulations and standards.
· Improved forecasting and preventive health strategies.
· Enhanced capacity for outbreak response and emergency preparedness.
· Greater integration of technology and health data systems.
· Promotion of evidence-based interventions and policies.
· Development of a data-savvy workforce in healthcare organizations.

Target Audiences

1. Public health professionals
2. Epidemiologists and data scientists
3. Healthcare administrators and managers
4. Health policy makers
5. Medical researchers
6. NGO health program officers
7. Hospital IT and health informatics staff
8. Graduate students in public health and data science

Course Duration: 5 days

Course Modules

Module 1: Introduction to Health Data & Population Surveillance

· Overview of health data systems
· Importance of population health surveillance
· Key public health indicators and metrics
· Challenges in health data collection
· Case Study: National immunization surveillance program
· Hands-on activity: Mapping local health indicators

Module 2: Epidemiological Methods for Surveillance

· Basics of epidemiology in health surveillance
· Study designs and population sampling
· Disease outbreak investigation techniques
· Data interpretation and trend analysis
· Case Study: Tracking seasonal influenza outbreaks
· Group exercise: Designing a surveillance study

Module 3: Health Data Collection & Management

· Data collection tools and techniques

· Electronic health records and mobile data capture

· Ensuring data quality and integrity

· Data cleaning and validation processes

· Case Study: Hospital admission data audit

· Hands-on practice: Creating a population health database

Module 4: Statistical Analysis for Population Health

· Introduction to statistical software for health data

· Descriptive and inferential statistics

· Risk analysis and incidence/prevalence calculations

· Data visualization and reporting

· Case Study: Diabetes prevalence analysis

· Exercise: Performing data analysis using software

Module 5: Digital Health Tools & Big Data Integration

· Overview of digital health technologies

· Big data analytics in population health

· Remote monitoring and IoT in healthcare

· Cloud-based health data systems

· Case Study: Using big data for epidemic prediction

· Practical activity: Analyzing large health datasets

Module 6: Geospatial Mapping & Visualization

· Introduction to GIS in public health

· Mapping disease hotspots and trends

· Spatial data analysis techniques

· Interactive dashboards for decision-making

· Case Study: Malaria incidence mapping

· Hands-on session: Creating GIS maps for local health data

Module 7: Predictive Modeling & Trend Forecasting

· Predictive analytics concepts

· Modeling disease progression and health trends

· Simulation and forecasting tools

· Interpretation of predictive outputs

· Case Study: Forecasting COVID-19 trends

· Exercise: Developing a predictive model using population data

Module 8: Ethical Considerations & Compliance

· Data privacy and security in healthcare

· Legal frameworks for health data management

· Ethical issues in population surveillance

· Responsible reporting and use of health data

· Case Study: Privacy-compliant data sharing initiatives

· Group discussion: Addressing ethical dilemmas in surveillance

Training Methodology

· Interactive lectures and presentations

· Hands-on workshops with real-world datasets

· Case study analysis and problem-solving exercises

· Group discussions and collaborative learning

· Practical demonstrations of digital health tools

· Scenario-based exercises to simulate population health challenges

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/health-data-population-surveillance-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.