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

ACCOUNTING AND FINANCE

Statistical Analysis for Financial Decision-Making 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 24, 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

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Statistical Analysis for Financial Decision-Making Training Course

Accounting and Finance • 10 Days Intensive • Accredited Certification

Course Overview

Statistical Analysis for Financial Decision-Making Training Course is designed to equip finance professionals with advanced statistical techniques, quantitative analysis skills, and data-driven decision-making capabilities essential for modern financial management.

Key Skills & Software Tools Covered

MS Word • Microsoft Excel • IBM SPSS Statistics • and Stata

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)
7 Dec 2026 – 18 Dec 2026	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**

25 Oct 2027 – 5 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**

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

Course Curriculum & Modules

Statistical Analysis for Financial Decision-Making Training Course

Introduction

Statistical Analysis for Financial Decision-Making Training Course is designed to equip finance professionals with advanced statistical techniques, quantitative analysis skills, and data-driven decision-making capabilities essential for modern financial management. The course explores the application of descriptive statistics, probability distributions, regression analysis, hypothesis testing, correlation analysis, time-series forecasting, and predictive modelling in financial environments. Participants will develop practical competencies in interpreting financial datasets, identifying trends, measuring uncertainty, evaluating investment performance, and transforming complex financial information into actionable business intelligence. Emphasis is placed on statistical computing, financial analytics, risk assessment, evidence-based budgeting, and quantitative financial modelling.

Through practical exercises and international case studies, participants will learn how to apply statistical methods to investment decisions, financial forecasting, credit risk evaluation, portfolio management, profitability analysis, and strategic financial planning. The programme integrates statistical software, financial data visualisation, predictive analytics, and scenario analysis to strengthen financial performance evaluation and organisational resilience. By combining theoretical foundations with real-world applications, the training enables participants to improve forecasting accuracy, optimise resource allocation, identify financial risks, and support executive decision-making in increasingly data-intensive financial markets.

Course Objectives

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

- Apply advanced statistical techniques to financial decision-making.
- Interpret financial datasets using descriptive and inferential statistics.
- Conduct regression and correlation analysis for financial forecasting.
- Apply hypothesis testing to financial performance evaluation.
- Develop predictive financial models using historical data.
- Analyse investment risks using probability distributions.
- Apply time-series analysis to financial forecasting.
- Evaluate portfolio performance using statistical indicators.
- Interpret financial trends through data visualisation.
- Conduct variance analysis and financial performance measurement.
- Apply quantitative methods to credit risk assessment.
- Improve budgeting and resource allocation through statistical insights.
- Integrate evidence-based analytics into strategic financial planning.

Organizational Benefits

- Improved accuracy of financial forecasts and projections.
- Stronger evidence-based financial decision-making.
- Enhanced investment evaluation and portfolio management.
- Improved identification and mitigation of financial risks.
- More effective budgeting and expenditure control.
- Increased operational efficiency through financial analytics.
- Better understanding of market trends and financial performance.
- Improved profitability analysis and resource optimisation.
- Stronger financial reporting and management accountability.
- Enhanced organisational competitiveness through predictive analytics.

Target Audiences

- Chief Financial Officers and Finance Directors.
- Financial Analysts and Investment Analysts.
- Accountants and Management Accountants.
- Banking and Financial Services Professionals.
- Risk Management and Compliance Officers.
- Economists and Business Intelligence Analysts.
- Budgeting and Financial Planning Managers.
- Auditors, Consultants and Corporate Finance Professionals.

Course Duration: 5 days

Course Modules

Module 1: Foundations of Statistical Analysis in Finance

- Introduction to financial statistics and quantitative decision-making.
- Types of financial data and measurement scales.
- Descriptive statistics: mean, median, mode and standard deviation.
- Data collection, classification and financial data quality.
- Statistical interpretation of financial performance indicators.
- Case Study: Financial performance analysis of multinational corporations such as Microsoft.

Module 2: Probability Theory and Financial Risk Measurement

- Probability concepts and financial uncertainty.
- Probability distributions and their financial applications.
- Normal, binomial and Poisson distributions.
- Expected returns, variance and standard deviation.
- Measuring financial uncertainty and potential losses.
- Case Study: Credit default probability assessment in international banking institutions.

Module 3: Correlation and Regression Analysis

- Understanding relationships between financial variables.
- Pearson and Spearman correlation techniques.
- Simple and multiple linear regression models.
- Regression coefficients and statistical significance.
- Financial forecasting using regression outputs.
- Case Study: Analysing the relationship between interest rates and investment returns in the United States.

Module 4: Hypothesis Testing and Financial Research

- Principles of statistical inference and hypothesis formulation.
- Null and alternative hypotheses in financial analysis.
- Z-tests, t-tests and chi-square testing.
- Analysis of variance and financial comparisons.
- Interpreting p-values and confidence intervals.
- Case Study: Testing profitability differences across international retail branches.

Module 5: Time-Series Analysis and Financial Forecasting

- Understanding financial time-series datasets.
- Trend, seasonality and cyclical variations.
- Moving averages and exponential smoothing.
- Autocorrelation and financial forecasting models.
- Forecasting revenue, cash flows and expenditure.
- Case Study: Exchange-rate and inflation forecasting using historical market data.

Module 6: Investment Analysis and Portfolio Performance

- Statistical evaluation of investment returns.
- Risk-return relationships and portfolio diversification.
- Measuring volatility and investment performance.
- Sharpe ratio, beta and standard deviation.
- Statistical analysis of asset allocation decisions.
- Case Study: Portfolio risk and return evaluation using international equity market data.

Module 7: Financial Data Analytics and Statistical Software

- Financial data preparation and statistical processing.
- Using Microsoft Excel for statistical calculations.
- Statistical analysis using R and Python.
- Financial dashboards and data visualisation.
- Interpreting statistical outputs for management reporting.
- Case Study: Financial analytics and performance dashboards for a global banking institution.

Module 8: Statistical Decision-Making and Strategic Financial Planning

- Integrating statistical findings into financial decisions.
- Scenario analysis and sensitivity testing.
- Statistical approaches to budgeting and cost optimisation.
- Predictive analytics for financial risk management.
- Communicating statistical findings to executive management.
- Case Study: Evidence-based financial planning and resource allocation in a multinational corporation.

Training Methodology

- Instructor-led presentations and interactive discussions.
- Practical financial data analysis and statistical exercises.
- Real-world international financial case studies.
- Group assignments and collaborative problem-solving.
- Hands-on statistical modelling using Excel, R and Python.
- Financial forecasting simulations and scenario analysis.
- Individual presentations and practical assessments.
- Knowledge-sharing sessions and facilitated feedback.

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/statistical-analysis-for-financial-decision-making-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.