Data Analytics in Public Revenue Systems Training Course

Professional Development Training Course Outline

Category	Taxation and Revenue	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Data Analytics in Public Revenue Systems Training Course provides participants with an in-depth understanding of how to apply data analytics to strengthen tax administration, compliance monitoring, and revenue performance. It focuses on modern analytical tools, data visualization techniques, and predictive modeling frameworks that enable revenue authorities to make evidence-based policy and operational decisions. Participants will learn how to collect, process, and interpret large datasets to uncover compliance gaps, detect tax evasion risks, and forecast revenue trends accurately.

The course emphasizes the integration of data analytics into strategic planning, performance management, and enforcement operations to improve efficiency and transparency. It also highlights the importance of data governance, security, and inter-agency collaboration in building reliable and ethical analytics systems. Through case studies, practical exercises, and simulation-based learning, participants will gain hands-on experience in developing and implementing analytics-driven strategies that enhance accountability, optimize resource allocation, and promote effective decision-making within public revenue systems.

Programme Curriculum

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Course Objectives

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

1. Understand the role and importance of data analytics in public revenue systems.
2. Collect, clean, and validate data from multiple revenue sources.
3. Apply descriptive, diagnostic, predictive, and prescriptive analytics in taxation.
4. Identify patterns, trends, and anomalies in taxpayer behaviour.
5. Develop dashboards and visualization tools for performance monitoring.
6. Use analytics to support compliance risk management and audit selection.
7. Forecast revenue and assess the impact of policy changes.
8. Integrate analytics into decision-making and strategic planning.
9. Implement data governance and ensure data quality and security.
10. Benchmark analytical practices against international best practices.
11. Measure the effectiveness of analytics-driven interventions.
12. Promote transparency and accountability through data-driven reporting.
13. Apply lessons from case studies to real-world public revenue analytics projects.

Target Audience

- Revenue Authority Analytics and IT Officers
- Tax Managers and Compliance Officers
- Finance Directors and Policy Analysts
- Internal Auditors and Risk Management Professionals
- Tax Advisors and Consultants
- Data Analysts and Business Intelligence Professionals
- Economists and Fiscal Planners
- Multinational Corporations monitoring tax compliance

Course Duration: 5 days

Course Modules

Module 1: Introduction to Data Analytics in Revenue Systems

- Overview of data analytics in public finance
- Types of data used in revenue systems
- Benefits of analytics in tax administration
- Legal and ethical considerations
- Case Study: Analytics transforming revenue collection

Module 2: Data Collection & Management

- Data sources: tax returns, payments, audits, third-party data
- Data cleaning, validation, and integration

- Data quality assurance and governance
- Best practices in database management
- Case Study: Consolidating multi-source tax data

Module 3: Analytical Techniques

- Descriptive analytics: summarizing historical data
- Diagnostic analytics: identifying causes of trends
- Predictive analytics: forecasting taxpayer behaviour and revenue
- Prescriptive analytics: guiding decision-making and interventions
- Case Study: Predictive analytics for compliance risk identification

Module 4: Data Visualization & Dashboards

- Designing interactive dashboards for decision support
- Visualization tools for revenue authorities
- Communicating insights effectively
- KPI monitoring and reporting
- Case Study: Implementing dashboard analytics for national tax authorities

Module 5: Compliance Risk Management

- Using analytics to detect non-compliance and fraud
- Risk scoring and segmentation of taxpayers
- Audit selection based on data-driven insights
- Measuring the impact of compliance interventions
- Case Study: Data-driven audit strategy in revenue systems

Module 6: Revenue Forecasting & Policy Analysis

- Integrating analytics with revenue forecasting models
- Assessing policy changes using data-driven methods
- Scenario planning and sensitivity analysis
- Reporting findings to stakeholders
- Case Study: Revenue impact analysis of tax reforms

Module 7: Technology & Tools

- Analytical software and business intelligence platforms
- Big data and cloud computing applications in revenue systems
- AI and machine learning in tax analytics
- Cybersecurity and data protection considerations
- Case Study: Implementing AI-based analytics for revenue monitoring

Module 8: Emerging Trends & Best Practices

- Global trends in data analytics for tax administration
- Innovations in predictive and prescriptive analytics
- Benchmarking analytics performance internationally
- Continuous improvement in analytical capacity
- Case Study: Best practices from high-performing revenue authorities

Training Methodology

- Instructor-led interactive sessions
- Hands-on exercises in data management and analytics
- Case studies and scenario-based simulations
- Group discussions and peer learning
- Practical exercises in dashboard and visualization design
- Access to templates, datasets, and analytical frameworks

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

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 Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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