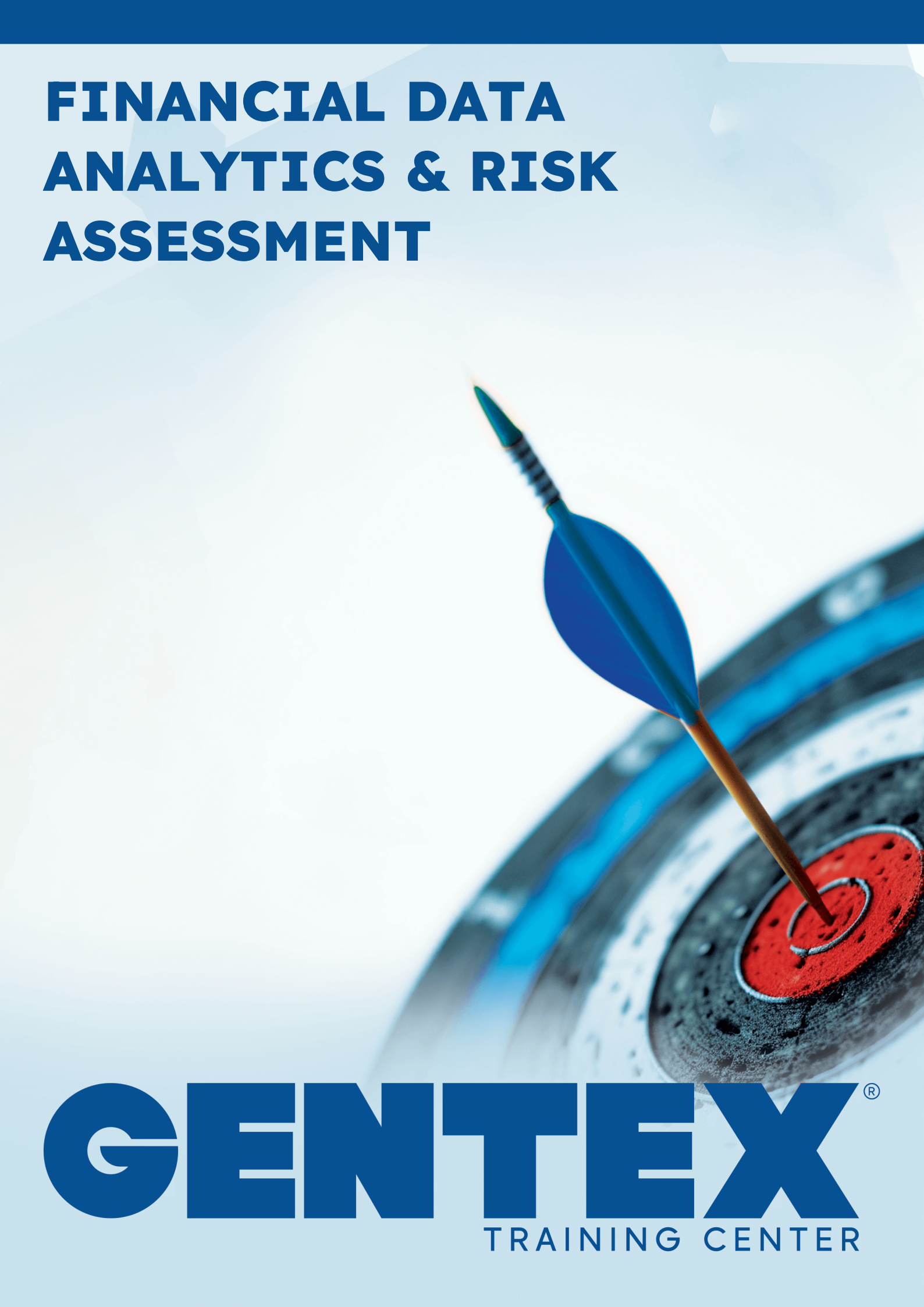
FINANCIAL DATA ANALYTICS & RISK ASSESSMENT



GENTEX®
TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Introduction

Financial Data Analytics & Risk Assessment Training Course builds the analytical and risk assessment capability that finance professionals, risk analysts, and auditors need to turn financial data into risk insight. Financial institutions and corporates now hold more transaction, cost, and exposure data than they can examine manually. Analysis that stays descriptive reports what happened; risk-focused analysis shows where exposure sits and what could go wrong. Weak practice there produces controls that miss the risk, alerts nobody investigates, and decisions made on incomplete evidence. This course develops the discipline that prevents those outcomes. It covers data preparation, analytical techniques, and risk assessment. Furthermore, it applies anomaly detection, control testing, and risk scoring. In addition, it develops dashboards, reporting, and decision support. As a result, participants analyse financial data and assess risk with confidence.

Financial Data Analytics & Risk Assessment Course Objectives

- Explain financial data sources, structures, and quality requirements.
- Apply data preparation, cleaning, and validation techniques.
- Apply descriptive, diagnostic, and predictive analytics to finance data.
- Apply ratio, trend, and variance analytics to financial performance.
- Apply anomaly detection and outlier analysis for risk identification.
- Apply Benford's Law and duplicate and gap testing techniques.
- Apply risk assessment frameworks and probability-impact scoring.
- Apply data-driven control testing and control effectiveness review.
- Apply risk indicators, thresholds, and continuous monitoring design.
- Prepare analytical risk dashboards, reports, and decision support packs.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Course Methodology

- Interactive lectures with real financial analytics and risk cases.
- Data preparation and analytical technique workshops.
- Anomaly detection, control testing, and risk scoring exercises.
- Dashboard, monitoring, and reporting practice.
- Structured peer review with facilitator feedback on analytical risk reports.

Who Should Take This Course

- Financial analysts and risk analysts.
- Internal auditors and control professionals.
- Compliance and financial crime analysts.
- Treasury and credit analysts.
- Finance data and business intelligence specialists.
- Consultants advising on analytics and risk.

Financial Data Analytics & Risk Assessment Course Outlines

Day 1: Financial Data Foundations and Preparation

- Financial data sources: ledgers, sub-ledgers, and transaction systems.
- Data structures, hierarchies, and chart of accounts mapping.
- Data quality dimensions: accuracy, completeness, and timeliness.
- Data cleaning, standardisation, and validation techniques.
- Master data management and reference data control.

- Data governance, lineage, and audit trail requirements.
- Case study: preparing a financial dataset for risk analysis.

Day 2: Analytical Techniques for Financial Data

- Descriptive analytics: trends, distributions, and segmentation.
- Diagnostic analytics: variance decomposition and root cause.
- Ratio and trend analytics applied to performance review.
- Peer, common-size, and benchmark comparison analytics.
- Correlation and regression analysis for financial data.
- Predictive analytics basics and forecasting applications.
- Workshop: building a financial performance analytics model.

Day 3: Anomaly Detection and Fraud Analytics

- Anomaly detection principles and outlier identification.
- Benford's Law testing and digit distribution analysis.
- Duplicate payment, ghost vendor, and gap detection testing.
- Structuring and unusual transaction pattern detection.
- Clustering and classification techniques for risk segmentation.
- Alert design, thresholds, and false positive management.
- Workshop: running anomaly detection on a transaction dataset.

Day 4: Risk Assessment Frameworks and Control Testing

- Risk identification across financial processes.
- Probability and impact assessment and risk scoring.

- Risk registers, heat maps, and risk appetite linkage.
- Control design assessment and control effectiveness testing.
- Data-driven control testing and sample selection.
- Key risk indicators and threshold setting.
- Workshop: assessing risk and testing control effectiveness.

Day 5: Monitoring, Dashboards, and Decision Support

- Continuous monitoring and automated alert routines.
- Risk dashboards and visualisation design principles.
- KPI and KRI reporting structures.
- Analytics report writing and findings presentation.
- Decision support packs for management and committees.
- Analytics governance, model validation, and documentation.
- Course review, assessment, and action planning.

Conclusion

By successfully completing Financial Data Analytics & Risk Assessment, participants will gain a thorough understanding of financial data foundations and preparation, analytical techniques for financial data, anomaly detection and fraud analytics, risk assessment frameworks and control testing, and monitoring, dashboards and decision support. They will also acquire practical skills in financial data preparation and validation, descriptive, diagnostic and predictive financial analytics, anomaly detection and fraud analytics testing, and risk assessment, control testing and analytics reporting. In addition, the course prepares them to turn financial data into risk insight that supports controlled decisions. Gentex Training Center delivers this programme with a strong focus on applied analytics practice and risk-focused decision support.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

FAQs for Financial Data Analytics & Risk Assessment course

Q1 What is the "Financial Data Analytics & Risk Assessment" course about?

It is a five-day programme on turning financial data into risk insight. It covers financial data foundations and preparation, analytical techniques, anomaly detection and fraud analytics, risk assessment frameworks and control testing, and monitoring, dashboards and decision support.

Q2 What are the key benefits of the "Financial Data Analytics & Risk Assessment" course?

Participants identify risk from data rather than assumption and test controls with evidence. The course improves data preparation and validation, sharpens analytical technique selection, strengthens anomaly and fraud detection, improves risk scoring and control testing, and raises dashboard and decision support reporting quality.

Q3 What skills will I gain from the "Financial Data Analytics & Risk Assessment" course?

Participants gain financial data preparation and validation, descriptive, diagnostic and predictive financial analytics, anomaly detection and fraud analytics testing, and risk assessment, control testing and analytics reporting. These four skills cover the practical core of financial analytics and risk assessment work.

GENTEX® TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Q4 What tools, methods, or standards are covered in the "Financial Data Analytics & Risk Assessment" course?

The course covers financial data sources across ledgers, sub-ledgers and transaction systems, data structures and chart of accounts mapping, data quality dimensions of accuracy, completeness and timeliness, data cleaning, standardisation and validation techniques, master data management and reference data control, data governance and lineage, descriptive analytics across trends and segmentation, diagnostic analytics with variance decomposition and root cause analysis, ratio and trend analytics, peer, common-size and benchmark comparison, correlation and regression analysis, predictive analytics and forecasting applications, anomaly detection and outlier identification, Benford's Law testing and digit distribution analysis, duplicate payment, ghost vendor and gap detection testing, structuring and unusual transaction pattern detection, clustering and classification techniques, alert design and threshold setting, false positive management, risk identification and probability-impact assessment, risk registers, heat maps and risk appetite linkage, control design assessment and control effectiveness testing, data-driven control testing and sample selection, key risk indicator and threshold setting, continuous monitoring and automated alert routines, risk dashboard and visualisation design, KPI and KRI reporting structures, analytics report writing, decision support pack preparation, and analytics governance and model validation.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Q5 How is the "Financial Data Analytics & Risk Assessment" course applied in real-world practice?

Participants apply the methods to real financial datasets. They map and prepare data with cleaning and validation checks, build descriptive and diagnostic performance analytics, run ratio, trend and benchmark comparisons, apply correlation and regression analysis, build predictive models, run anomaly detection with Benford's Law and duplicate payment testing, detect structuring and unusual patterns, design alert thresholds and manage false positives, assess process risks with probability-impact scoring, test control effectiveness with data-driven sampling, set key risk indicators, build continuous monitoring routines, design risk dashboards, and prepare analytics findings and decision support packs. Many leave with a data preparation checklist, an anomaly detection testing framework, and a risk dashboard structure ready to use.