



AI in Revenue Administration: Tax Compliance, Analytics & Fraud Detection Course

7 – 11 December 2026
Johannesburg

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Overview

AI in Revenue Administration: Tax Compliance, Analytics & Fraud Detection Course is a 5-day advanced course for revenue, tax, audit, compliance, analytics, data and digital transformation professionals who leave with an AI Revenue Administration Roadmap. The course connects AI in revenue administration with taxpayer risk scoring, revenue analytics, forecasting, audit selection, fraud detection, services, governance and accountable human review. AI-enabled revenue administration is taught by Agile Leaders Training Center.

Who Should Attend

- Revenue administration leadership responsible for collection performance, operating priorities and institutional decisions
- Tax compliance, audit and investigation functions responsible for case selection, enforcement and professional judgment
- Revenue intelligence, forecasting and analytics teams responsible for trends, risk indicators and decision support
- Taxpayer service and collection functions responsible for filing, payment, interventions and digital assistance
- Digital transformation, data and IT teams responsible for automation, information systems and implementation readiness
- Risk, governance and compliance functions responsible for privacy, fairness, accountability and cybersecurity controls

The course assumes participants already work with revenue, tax, audit, compliance, analytics, data or public-sector processes, and it leaves out programming and technical model development.

Departments and Industries

The course serves departments and industries where AI-supported revenue decisions affect compliance, collections, public finance and service delivery.

- Revenue administration, collection and taxpayer service departments
- Tax compliance, enforcement, audit and investigation units
- Revenue intelligence, forecasting, analytics and public finance teams
- Customs, treasury and public financial management institutions
- Digital transformation, information technology and data management functions
- Government agencies, municipal revenue departments and shared-service organizations

Learning Objectives

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

- Apply AI use-case criteria across revenue administration processes
- Analyze taxpayer, transaction and third-party data for revenue insights
- Evaluate compliance, audit and fraud risk indicators with human judgment
- Use generative AI and automation controls in taxpayer and administrative workflows
- Build data, AI governance and human oversight controls
- Prioritize a phased revenue administration digital transformation roadmap

Course Agenda

Day 1: AI Revenue Administration Foundations

- AI Revenue Administration Operating Map across Registration, Filing, Payment, Collection, Compliance, Audit and Services
- AI Capability Framework for Machine Learning, Predictive Analytics and Generative AI
- Digital Revenue Administration Maturity Path from Process Automation to Intelligent Operations
- AI Process Suitability Canvas for Revenue Workflows and Intelligent Automation
- AI Use-Case Value and Feasibility Matrix covering Data Readiness and Operational Risk, followed by a Revenue Lifecycle Opportunity Review

Day 2: Revenue Analytics and Forecasting

- Revenue Data Map for Taxpayer, Transaction, Filing, Payment and Third-Party Sources
- Revenue Analytics Framework for Trends, Anomalies, Segmentation and Performance Indicators
- Predictive Taxpayer Behavior Model for Payment Patterns and Revenue Performance
- Revenue Forecasting Template using Historical Data, Predictive Models and Scenario Analysis
- AI Decision-Support Brief for Planning, Budgeting and Resource Allocation with Data Quality, Bias, Accuracy and Human-Judgment Review

Day 3: Compliance, Audit and Fraud Analytics

- Tax Compliance Risk Indicator Library for Non-Filing, Underreporting, Late Payment and Reporting Discrepancies
- Revenue Collection Segmentation Matrix for Payment Prioritization and Targeted Interventions
- Risk-Based Audit Selection Matrix combining Case Prioritization and Intelligent Document Analysis
- Tax Fraud Detection Framework using Anomaly Detection, Pattern Recognition and Suspicious Transaction Analysis
- Machine-Learning Taxpayer Risk Scorecard with Behavioral and Multi-Source Data, Network Analytics and Professional-Judgment Review

Day 4: Generative AI and Taxpayer Services

- Generative AI Workflow Canvas for Research, Analysis, Correspondence and Administrative Tasks
- Regulation, Document, Case and Taxpayer Information Review Protocol for Generative AI
- AI Taxpayer Service Journey using Virtual Assistants, Chatbots, Personalized Guidance and Digital Self-Service
- Intelligent Document Processing Flow for Validation, Reconciliation, Classification and Repetitive Tasks
- AI Output Verification Checklist covering Hallucinations, Accuracy, Confidentiality, Privacy, Source Reliability and Human-AI Review

Day 5: Governance, Practice and Transformation

- Exercise: Building a Responsible AI Control Map for Transparency, Accountability, Fairness, Privacy, Security and Public Trust
- Exercise: Designing a Human-in-the-Loop Decision Protocol for Tax, Audit, Compliance and Enforcement
- Exercise: Completing a Revenue Data Governance Checklist for Quality, Ownership, Access, Security and Responsible Use
- Exercise: Creating an AI Governance Inventory with Risk Classification, Monitoring and Performance Controls
- Capstone: Presenting a Phased AI Revenue Administration Roadmap covering Use Cases, Data, People, Governance, KPIs and Priority Actions

Practical Exercises

The course includes suggested activities that apply AI in revenue administration to operational and governance decisions.

- Suggested activity: prioritize candidate use cases with the AI Value and Feasibility Matrix and Readiness Checklist
- Suggested activity: interpret taxpayer risk indicators with the Risk-Scoring Template and Audit Selection Matrix
- Suggested activity: review a generative AI output for accuracy, privacy, source reliability and required human verification
- Suggested activity: build an implementation roadmap with data, governance, people, controls and performance indicators

FAQs

Who is AI in revenue administration training suited to, and what does it assume?

It suits revenue, tax, audit, compliance, analytics, digital transformation, data and IT professionals. It assumes relevant operational experience but requires no programming, machine-learning or data-science qualification.



How does AI in revenue administration differ from general AI training?

AI in revenue administration focuses on taxpayer data, compliance risk, audit selection, fraud detection, collections, forecasting, services and accountable decisions. General AI training normally addresses broader technologies without mapping them to revenue operations.

Can AI replace human decisions in tax compliance, audit and revenue collection?

No. AI can support forecasting, risk assessment, anomaly detection, case selection and document analysis, but taxpayer-impacting decisions require accountable human review, professional judgment and appropriate governance.

How can revenue teams validate AI-supported risk scores and forecasts?

Revenue teams can test data quality, assumptions, bias, accuracy, explainability and scenario sensitivity, compare outputs with baseline methods, document model limitations and retain human approval for consequential decisions.

What controls support responsible AI in revenue administration?

Responsible controls include data ownership, permitted-use rules, privacy and security safeguards, fairness testing, explainability, human oversight, escalation paths, monitoring, documentation and performance measures.

Conclusion

Participants take back an AI Revenue Administration Roadmap supported by a use-case canvas, revenue analytics framework, risk scorecard, audit selection matrix, output checklist and governance controls. The roadmap makes priorities, risks and ownership visible. Revenue teams can use it to sequence implementation while preserving accountable human decisions.