

Course No. 1207

AI Audit & Assurance Training Course

AI GOVERNANCE, ETHICS & RISK
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The AI Audit & Assurance Training Course is a comprehensive professional development program designed to equip executives, internal and external auditors, governance professionals, compliance officers, risk managers, AI leaders, cybersecurity specialists, data scientists, machine learning engineers, legal advisors, and technology professionals with the knowledge and practical skills required to plan, execute, and evaluate effective audit and assurance activities for Artificial Intelligence systems. As AI becomes increasingly embedded in critical business operations and strategic decision-making, organizations must establish robust audit and assurance frameworks that promote transparency, accountability, compliance, and trust while ensuring AI systems operate reliably, ethically, securely, and in alignment with organizational objectives.

Government entities, ministries, public sector organizations, banks and financial institutions, oil and gas companies, healthcare providers, manufacturers, telecommunications companies, transportation authorities, educational institutions, and multinational corporations are rapidly deploying Artificial Intelligence to automate operations, improve decision-making, strengthen risk management, detect fraud, optimize resources, and enhance customer experiences. However, AI systems introduce new challenges related to governance, model reliability, data quality, algorithmic bias, explainability, cybersecurity, privacy, regulatory compliance, and operational risk. Without structured AI audit and assurance processes, organizations may struggle to validate AI performance, maintain stakeholder confidence, and demonstrate compliance with evolving regulatory expectations.

This course provides a practical framework for auditing and assuring AI systems throughout the entire AI lifecycle. Participants will explore AI governance, audit planning, AI risk assessment, model validation, data governance, AI controls assessment, cybersecurity auditing, privacy compliance, Responsible AI, Explainable AI, regulatory frameworks, audit evidence collection, reporting methodologies, continuous auditing, and assurance best practices. The program also introduces internationally recognized governance principles and practical audit methodologies that help organizations evaluate AI systems objectively while supporting responsible and trustworthy AI adoption.

The AI Audit & Assurance Training Course combines strategic knowledge with practical implementation through interactive workshops, enterprise case studies, AI audit simulations, governance assessments, and implementation planning exercises. By the end of the course, participants will be capable of designing and executing AI audit programs, evaluating AI governance

effectiveness, strengthening organizational controls, improving regulatory readiness, reducing AI-related risks, and building enterprise assurance frameworks that support secure, transparent, accountable, and high-performing Artificial Intelligence environments.

Objectives

- Analyze the principles and methodologies of AI audit and assurance.
- Develop comprehensive audit plans covering the complete AI lifecycle.
- Evaluate governance, compliance, security, privacy, and operational controls for AI systems.
- Apply structured audit techniques to assess AI models, data, and infrastructure.
- Design enterprise AI assurance frameworks supporting transparency and accountability.
- Improve organizational readiness for internal and external AI audits.
- Strengthen AI governance through independent assurance and continuous monitoring.
- Implement audit reporting, corrective action tracking, and continuous improvement processes.
- Assess organizational AI audit maturity and identify enhancement opportunities.
- Align AI audit and assurance activities with enterprise governance, risk management, compliance, and digital transformation strategies.

Who Should Attend

This course is designed for executives, board members, chief audit executives, internal auditors, external auditors, governance professionals, compliance officers, risk managers, chief information officers, chief information security officers, AI leaders, data governance specialists, cybersecurity professionals, legal advisors, enterprise architects, data scientists, machine learning engineers, consultants, and decision-makers responsible for governing or evaluating Artificial Intelligence systems.

The program is particularly valuable for professionals working in government entities, ministries, regulatory authorities, public sector organizations, banks and financial institutions, oil and gas companies, healthcare organizations, manufacturing companies, telecommunications providers, transportation authorities, educational institutions, consulting firms, and multinational corporations implementing enterprise AI initiatives.

Professionals responsible for governance, enterprise risk management, compliance, cybersecurity,

digital transformation, AI governance, internal control, data governance, quality assurance, operational resilience, technology strategy, and business process improvement will gain practical methodologies that strengthen AI oversight and organizational assurance capabilities.

Learning Outcomes

- By the end of this course, participants will be able to:
- Explain the principles and organizational importance of AI audit and assurance.
- Plan and execute AI audits using structured professional methodologies.
- Evaluate AI governance, internal controls, model management, and data quality.
- Assess AI systems for transparency, fairness, explainability, privacy, and regulatory compliance.
- Apply AI risk management and assurance techniques throughout the AI lifecycle.
- Conduct continuous AI monitoring and prepare professional audit reports.
- Evaluate organizational readiness for AI regulatory and compliance reviews.
- Integrate AI auditing into enterprise governance, cybersecurity, and risk management frameworks.
- Develop practical recommendations that improve AI reliability, accountability, and operational effectiveness.
- Build enterprise roadmaps supporting sustainable AI audit and assurance capabilities.

Course Outline

DAY 01

Foundations of AI Audit & Assurance

- Introduction to AI audit and assurance
- AI governance and organizational oversight
- AI lifecycle from an audit perspective
- AI audit standards and assurance principles

PRACTICAL WORKSHOP ON DEFINING THE SCOPE OF AN AI AUDIT

DAY 02

Auditing AI Models, Data, and Risk

- Data governance and data quality auditing
- AI model validation and performance assessment
- AI risk assessment methodologies
- Evaluating fairness, explainability, and transparency

PRACTICAL EXERCISE ON AUDITING AI RISKS AND CONTROLS

DAY 03

Governance, Compliance, and Responsible AI

- AI governance frameworks
- Responsible AI and AI ethics assessments
- Regulatory compliance and privacy auditing
- Cybersecurity controls for AI systems

WORKSHOP ON DESIGNING AN ENTERPRISE AI ASSURANCE FRAMEWORK

DAY 04

Audit Execution and Reporting

- AI audit planning and fieldwork
- Audit evidence collection and analysis
- Audit reporting and management recommendations
- Continuous auditing and follow-up activities

PRACTICAL WORKSHOP SIMULATING A COMPLETE AI AUDIT ENGAGEMENT

DAY 05

Building an Enterprise AI Audit & Assurance Framework

- Future trends in AI auditing and assurance
- International best practices for AI governance and assurance
- Integrating AI auditing into enterprise governance, risk management, and digital transformation
- Organizational change management for AI oversight

FINAL WORKSHOP

Final workshop involving the development of a comprehensive Enterprise AI Audit & Assurance Framework integrating AI governance, enterprise risk management, data governance, model lifecycle management, Responsible AI, Explainable AI, regulatory compliance, cybersecurity, privacy protection, internal controls, audit planning, evidence collection, reporting, continuous monitoring, performance measurement, corrective action management, and continuous improvement to establish trustworthy, transparent, secure, compliant, and high-performing Artificial Intelligence across the enterprise.

Register or Request More Information

Course page: <https://quest-training.com/courses/ai-audit-assurance-training-course>

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