

CENTRAL BANK OF EGYPT
Egyptian Banking Institute



البنك المركزي المصري
المعهد المصرفي المصري



Smart Audit Leveraging AI in Internal Audit

COURSE CODE: 10409

COURSE HOURS: 8 HOURS

Course Description:

Artificial Intelligence is rapidly transforming how organizations detect risk, analyze data, and monitor operations. This one-day course introduces internal auditors to practical ways AI can enhance the audit function, particularly in **risk-based auditing and continuous auditing**. Participants will explore key branches of AI—including machine learning, natural language processing, and generative AI—and understand how these technologies can support audit planning, risk identification, anomaly detection, and ongoing control monitoring. Through real-world banking and financial services examples, the course demonstrates how AI tools can help auditors analyze large datasets, identify emerging risks, and automate parts of the audit workflow while maintaining professional skepticism and governance oversight. The session also addresses the limitations, risks, and governance considerations associated with using AI in internal audit.

Target Audience:

- Internal Auditors
- IT Auditors
- Risk Management Professionals
- Compliance Officers
- Audit Managers and Heads of Audit

Course Objectives:

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

1. Understand the **main branches of Artificial Intelligence relevant to internal audit**
2. Identify **practical AI use cases in the audit lifecycle**
3. Use AI to support **risk assessment and audit planning**
4. Understand how AI enables **continuous auditing and continuous monitoring**
5. Evaluate **AI-related risks and governance considerations**
6. Identify tools that auditors can use immediately (LLMs, analytics, anomaly detection)

Course Outline:

Module 1 — Introduction to Artificial Intelligence for Auditors
Module 2 — AI in the Internal Audit Lifecycle
Module 3 — Using AI in Risk-Based Audit Planning
Module 4 — AI for Continuous Auditing
Module 5 — Generative AI for Internal Auditors
Module 6 — AI Tools for Internal Auditors
Module 7 — Risks of AI and the Role of Internal Audit
Module 8 — Case Studies and Practical Scenarios
Course Wrap-Up

Assessment and Attendance Strategy:

- Participants will be evaluated based on their participation in class discussions and individual exercises
- Each Participant must achieve 80% attendance of the total in-class sessions

Course Language:

Material: English

Instruction and Explanation: Bilingual (EN \leftrightarrowAR)

Prerequisites:

- Basic understanding of **internal audit processes**
- Familiarity with **risk-based auditing concepts**
- No programming knowledge required

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