



CENTRAL BANK OF EGYPT  
Egyptian Banking Institute

# Risk Assessment Using Data Analytics



32 Hours



Virtual

Center of **Excellence** and **Knowledge Hub**

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**Course Description:**

This course covers the basic concepts of risk assessments and enterprise risk assessments (ERAs) and how data analytics can optimize the risk assessment process; it also covers how to use risk assessments in risk-based auditing at the annual audit planning, the engagement planning, and the audit program development levels. It also includes Enterprise Risk Management (ERM) fundamentals, best practices, and examples of tools, templates, and reports commonly used in the risk management process. There is also coverage of ERM metrics using data analytics.

To better partner with key business stakeholders and add value to one's organization, it is necessary to understand key business risks. Therefore, the course devotes significant coverage to common business functions and their respective key processes, as well as the related risks, including Accounting, Financial Reporting, Human Resources, Legal, Sales, Contracts, Customer Service, Transportation/Delivery Service, IT, Manufacturing, Compliance, Quality Assurance, and Research & Development.

Throughout the course, there are exercises, informative articles, case studies, examples of tools and templates, and graphical depictions to help the participant apply concepts and theories to practical use in their organization. The course wraps up with reporting risk information to key stakeholders, including what's important to the Board as it relates to communicating risk information.

**Target Audience:**

Internal Auditors, Compliance Experts, and leaders in Internal Audit departments (mid – senior) level.

**Course Objectives:**

- Recognize the fundamentals of an Enterprise Risk Assessment (ERA)/Enterprise Risk Management (ERM) process and the basic concepts of a Risk-Based Auditing approach.
- Understand the role of data analytics in the risk assessment/management/monitoring process and the general steps for using data analytics in risk assessments. Understand the risk management process (ERM) through recurring risk identification, measurement, and mitigation, including the standard tools, templates, and reporting used in the ERM process through real examples and case studies.
- Identify the key risks of common business functions in the risk assessment of these business functions (including Accounting, HR, Treasury, Inventory, R&D, Compliance, Financial Reporting, Sales, IT, Procurement, Manufacturing, and others).
- Apply data analytics concepts to perform risk assessments in business functions using exercises and/or real-world case studies.
- Apply some best practices for reporting on risk assessments that are concise, effective, and engaging for key stakeholders.

**Course Outline:**

1. Enterprise Risks
  - Risk Assessment – Basics
  - Enterprise Risk Assessment – Overview
  - Enterprise Risk Assessment – Steps
  - Enterprise Risk Assessment – Templates
  - Enterprise Risk Assessment - Examples

2. Enterprise Risk Management (ERM)

- ERM – Overview
- ERM Metrics
- ERM Effectiveness

3. Risk-Based Auditing

- Risk-Based Auditing – Overview
- Annual Audit Plan
- Audit Program

4. Data Analytics

- Overview
- Data Analytics Terms
- Continuous Monitoring
- Role of Data Analytics in Risk Management
- Steps for Using Data Analytics in Risk Assessments

5. Executive Perspective on Top Risks

- Top Risks

6. Business Function Risk Assessment – Inventory

7. Business Function Risk Assessment – Treasury

8. Business Function Risk Assessment – Accounting

9. Business Function Risk Assessment – Procurement

10. Business Function Risk Assessment – Compliance

11. Business Function Risk Assessment – Legal

12. Business Function Risk Assessment – Human Resources (HR)

13. Business Function Risk Assessment – IT

14. Business Function Risk Assessment – Sales

15. Business Function Risk Assessment – Financial Reporting

16. Business Function Risk Assessment – Contracts

17. Business Function Risk Assessment – Customer Service

18. Business Function Risk Assessment – Transportation / Delivery
19. Business Function Risk Assessment – Health Safety Environmental and Security (HSES)
20. Business Function Risk Assessment – Research and Development (R&D)
21. Business Function Risk Assessment – Manufacturing
22. Culture Risk Assessment
  - Culture Risk Assessment - Drivers
  - Culture Risk Assessment – Dashboard
23. Risk Assessment Reporting
  - Communication / Reporting

**Assessment Strategy:**

Participation

**Prerequisites:**

N/A

**Instructor Bio:**

**Rob Clark, Jr.**, Chief Audit & Compliance Officer for Howard University, is a nationally recognized authority in internal audit, risk management, compliance and with over 30 years of industry experience. He is a highly rated and engaging speaker and instructor with a gift of being able to connect with his audience in an impactful way. He has created numerous audit classes through ACI Learning and is frequently requested instructor.

He joined Howard in July 2020 and has been leading the internal audit and compliance team to implement best practices. Prior to HU, he served as the Chief Audit & Compliance Officer at Clark Atlanta University. Prior to that he served as the Chief Audit Executive at Georgia Tech and the University of Nebraska, and Audit Manager at Massachusetts Institute of Technology.

He has held leadership positions as President of the Association of College and University Auditors (ACUA); President and now Board Member of the Institute of Internal Auditors (IIA)- Atlanta Chapter. He has served as a teaching faculty member of the IIA, the College Business Management Institute (CBMI), ACI Learning, and has been a highly sought-after speaker for dozens of organizations such as ACUA, The IIA, AGA, DCSHRM, NACUBO, EDUCAUSE, The Chronicle of Higher Education, Office of Inspectors General, SACUBO, Federal Reserve, and many others.

He holds professional designations as a Certified Internal Auditor, Certified Compliance and Ethics Professional, Certified Information Systems Auditor, and Certified Business Manager. He is a Board Member of the National Speakers Association – GA; a Certified Virtual Presenter through eSpeakers; a CTM through Toastmasters; and has performed stand-up comedy at the Punchline Comedy Club, Laughing Skull, and numerous other engagements.

Although he spent over 20 years in Georgia, he still never developed a taste for grits.

HOTLINE  
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