

aractech

Global Learning for Operational Leaders



DATA MANAGEMENT AND BUSINESS INTELLIGENCE

Data Analysis for Internal Auditing

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Course content



Why Attend

Processes are becoming more complex; and simple audit techniques and random audit samples are not enough anymore to provide factual evidence to draw conclusions. Given this, it is only through proper data analysis and smart sampling that auditors can perform their responsibilities in an effective and efficient way.

This course develops critical skills in analyzing and interpreting data, which are essential in today's data-driven world. The course equips participants with knowledge and techniques to identify patterns, trends, and relationships in data, enabling them to make strategic decisions that benefit their organizations. Additionally, participants gain skills to confidently design and execute effective audit sampling plans that can greatly improve the efficiency and effectiveness of the audit process.

Course Methodology

- Through group exercises, case studies and real-time data bundles, participants will turn raw data into knowledge to understand patterns and identify red flags, or deviations from procedures and standards. Moreover, participants will go through several audit sampling techniques that will help them develop representative and efficient sample sizes that can be applied in their day-to-day missions.

Course Objectives

- Demonstrate a comprehensive understanding of data analysis techniques
- Understand the impact of data analysis on audit sampling
- Use statistical tools to analyze information, manipulate data and conduct audit sampling
- Apply different audit sampling methods to different scenarios
- Identify data anomalies and deviations in audit results to simplify the reporting process

Target Audience

- This course is suitable for all Internal Auditors, and those involved in the internal auditing process including, but not limited to, internal controllers, risk officers, external auditors and compliance officers from all levels.
- Target Competencies
- Data mining
- Mitigating risks

Course outline



Detailed course outline

Module-by-module outline for Data Analysis for Internal Auditing.

Module 1 - Introduction to data analysis

- Definition and history
- Current technology, the growing availability of data, and increasing challenges
- The impact of vast volumes of data
- Understanding when and how to corroborate data
- Rethinking the value and usage of data
- Getting real value from the data

Module 2 - The different sampling methods

- Sampling and non-sampling risks
- Statistical and non-statistical sampling
- Random sample vs. population census
- Sampling method vs. sample size

Module 3 - Benefits and risks of sampling techniques such as

- Random sampling
- Stratified sampling
- Interval sampling
- Subjective sampling
- Block sampling
- Systematic sampling

Course outline



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Module 4 - Comparison and benchmarking

- Practice Advisory 2320
- Institute of Internal Auditors (IIA) recommendations and publications
- Performance benchmarking
- The evolution of big data
- Evaluating the effectiveness of new data analysis techniques
- Peer benchmarking

Module 5 - Data mining vs. audit sampling

- Different data analysis techniques and selecting the sample
- Employing methods for adjusting sampling size
- Simple excel functions and queries to perform analyses
- Incorporating fraud red flags in the audit sampling
- Practice combining results for different scenarios

Seminar dates



Available seminar dates

Live dates and pricing for Data Analysis for Internal Auditing generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Rome	Classroom	€2,975
20 - 24 July 2026	Istanbul	Classroom	€1,995
3 - 7 August 2026	Vienna	Classroom	€2,975
7 - 11 September 2026	Barcelona	Classroom	€2,695
12 - 16 October 2026	Rome	Classroom	€2,975
9 - 13 November 2026	Munich	Classroom	€2,415
14 - 18 December 2026	Amsterdam	Classroom	€2,975

Live online option

Online delivery is available at €1,250.