



Seminar title: **Statistical sampling for internal auditors**

Duration: 6 hours

Language: English / Greek

Seminar objectives

The seminar intends to help participants to comprehend the principles of statistical sampling, in order to be in a position to select their samples in a scientific way that will protect the quality of their work. The emphasis on statistical theory will be up to the point that is necessary to enhance credibility of the sampling effort. After completing the seminar, participants will be in a position to:

- Identify the most appropriate technique under the circumstances and the population under review.
- Implement in practice the techniques presented in order to effect statistical sampling of their populations

Addressed to:

The workshop is mainly addressed to Internal Auditors and business people that often have to sample populations, in order to test quality, evaluate processes and systems of internal control, etc.

Given that business people in various disciplines are required to effect sampling, the audience of this course can be diverse and broad.

Prerequisites:

None. The course will provide participants with fundamental statistical theory to be able to follow the course and beneficially use statistics in their daily work

Seminar approach:

After explaining the fundamental concepts and the theoretical background of the topic, the instructor will demonstrate practical case studies where sampling efforts will be carried in relation to test of controls.

Training equipment:

The presentation will be supported by slides and case studies with the use of digital flip chart writings to vividly demonstrate concepts to participants.



Course Outline
Sampling for Internal Auditors – Online edition

Block 1 – Theory

Session	Topic	Duration
Session 1	<ul style="list-style-type: none"> • Introduction • Why we need statistics • Risks associated with sampling • Statistical vs Non-statistical sampling 	90'
Break	Coffee Break	15'
Session 2	<ul style="list-style-type: none"> • Principles of statistics and sampling <ul style="list-style-type: none"> ○ Statistical concepts (population, confidence level, precision, reliability, etc.) • Sampling Plans (determine the size of the sample) <ul style="list-style-type: none"> ○ Attribute Sampling 	90
Break	Lunch Break	60'

Block 2 – Implementation

Session	Topic	Duration
Session 1	<ul style="list-style-type: none"> • Sample selection techniques (determine which items are going to be selected) • Statistical techniques • Non-Statistical techniques • Applying statistical sampling in internal audit • Statistical Sampling methodology 	75'
Break	Coffee Break	15'
Session 2	<ul style="list-style-type: none"> • Applied cases (a practical case will be presented and participants divided in groups will have to sample a population and answer specific questions) <ul style="list-style-type: none"> ○ Attribute Sampling • Conclusions – wrap up 	75