



An Introduction to Internal Audit Data Analytics

Course Schedule – Topics & Activities

Day One

- Introduction to Data Science & Analytics
 - What is analytics
 - Identify and define key data analysis terms
 - List common issues regarding data types
 - Tools overview
 - Explain necessary preparation to get started on a data analysis project

- Analytics in the context of IA
 - Why / value
 - Marketplace perspectives
 - Use Cases
 - Maturity model
 - Strategic considerations
 - People
 - Process
 - Methodology
 - Data Mgmt
 - Project identification

Day Two

- Data science & analytics techniques
 - Methodology & CRISP-DM
 - Predictive Analytics (unsupervised and supervised)
 - Social network analysis & link analysis
 - Text analytics
 - Poisson and binomial analysis
 - Event history analysis
 - Other methods
 - Leading practices

Day Three

- Visual analytics
 - Why visualizations
 - Visualizations in the business world
 - Validity in decision making
 - Exploiting cognitive ability for decision making to create effective data visualizations
 - Leading practices on creating visualizations
 - Visualization Tool Overview and Comparison

- Presenting observations & Story telling
 - Why we tell stories
 - The Science: Approach to Developing Stories
 - The Art: Developing Data-Driven Content

Day Four

- End to end use case

*Topics and activities may vary by class and instructor.

Course Duration: up to 4 days

CPE: up to 32

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