Qlik Understanding Data Principles

Course Overview: Understanding Data Principles is an introductory, instructor-led course focusing on beginning concepts in statistics and analytics, and their importance in the world today. This course provides learners an opportunity to explore various preliminary topics concerning why statistics and analytics are important in today's data environment, allowing students to develop a foundation for strong analytical knowledge. In addition, this course will help organizations become more data literate, allowing them to differentiate themselves from their competition.

Prerequisites: None

Audience: Anyone beginning in analytics and statistics and for those already trained in these fields looking for a refresh

Course Duration: 1 Day

Course Outline:

- Data Literacy
- Data and aggregations
- Analytical mindset
- Signal and noise, probability,
- statistical inference
- Distributions and standard deviation
- Sampling and bias
- A/B testing and Type I and II errors
- Correlation vs causation
- Scatter plot analysis
- Regression analysis

Skills Learned:

- Increased knowledge of Data Literacy
- Increased knowledge regarding data and aggregations
- Understanding of the analytical mind-set
- Foundational thoughts of analytics: signal and noise, probability, and inference
- Purpose of distribution analysis, the standard deviation
- Stronger understanding of sampling and bias, including a look into polling
- Dive into hypothesis testing and false positive and false negatives errors
- A look into correlation and causation, including regression analysis