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PHOENIX TS

Data Analysis Level 1

This course will introduce students to data analysis, modeling, and spreadsheet usage to make informed decisions.

BONUS! Cyber Phoenix Subscription Included: All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

Course Overview

This 3 -day instructor led course introduces the necessary core quantitative methods and the foundations for statistical methodologies used in data analytics. Statistical software and the use of spreadsheets are integrated throughout so that students better comprehend the importance of using technological tools for effective model building and decision-making. This course is data-oriented, exposing students to basic statistical methods, their conceptual underpinning, such as variability and uncertainty, and their use in the real world. Topics include data collection, descriptive statistics, elementary probability rules and distributions, statistical inferences, break-even analysis, regression analysis, and introduction to predictive modeling and optimization models.

There are no prerequisites for this course.

Course Objectives

At the end of this training course, participants will be able to do the following:

- To improve analytical thinking and develop effective problem-solving strategies and validation techniques for different problem situations.
- To familiarize students with useful, efficient, and proper methodologies for summarizing and communicating quantitative and qualitative data in Excel.
- To build statistical models replicating the real-life situation as closely as possible and to formulate appropriate hypothesis given the context
- To help students acquire effective modeling skills in designing and implementing readable and

reliable spreadsheet models.

- To teach students how to interpret the results of statistical tests and decision models, and to use them in making decisions.
- To develop one's ability and confidence in effectively communicate analytical, quantitative, and statistical concepts.

Schedule

DATE	LOCATION	
10/01/25 - 10/03/25 (3 days)	Online/Virtual Open	Contact Us
2/11/26 - 2/13/26 (3 days)	Online/Virtual Open	Contact Us
4/15/26 - 4/17/26 (3 days)	Online/Virtual Open	Contact Us
7/08/26 - 7/10/26 (3 days)	Online/Virtual Open	Contact Us
11/23/26 - 11/25/26 (3 days)	Online/Virtual Open	Contact Us

Course Outline

Module 1: Introduction to The Course

- Introduction to Analytics
- Different Types of Analytics
- Why are There So Many Different Methods?
- Terminology and Notation
- Core Ideas in Data Analytics
- The Steps in Data Analytics Projects

Module 2: Data Exploration • Introduction to Statistics

- Variable Types
- Summarizing Data
- Descriptive Statistics: Measures of Central Tendency



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- Descriptive Statistics: Measures of Variation
- Statistical Displays: Histograms and Boxplots

Module 3: Excel for Data Analysis

- Introduction to Excel
- Sort/Filter/Conditional Formatting
- Pivot Tables
- Data Visualization

Module 4: Breakeven Analysis

- Linear Functions
- Revenue and Cost Models
- Exponential Functions
- Curve Fitting
- What-If Analysis / Goal Seek

Module 5: Time Value of Money

- Basics of lending and borrowing.
- Interest
- Present and future value of investments
- Simple Interest
- Compound Interest

Module 6: Probability Models

- Basic Principles
- Conditional Probability
- Discrete Random Variables
- Continuous Random Variables
- Normal Distribution
- Z-score
- Outlier Detection Method

Module 7: Statistical Inferences



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- Sampling Types / Survey Errors
- Confidence Intervals
- t-Distribution
- Introduction to Hypothesis Testing
- Single Sample t-Test
- Type I/II Errors

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This **Data Analysis Level 1** course includes:

- 3 days of instructor-led training
- Data Analysis Level 1 training book
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*

**denotes this benefit is only available at participating locations.*