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**Course Name**

# Data Analysis Techniques

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**Sector Name**

Information Technology

**Document Type**

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## Data Analysis Techniques

### Course Introduction

In this comprehensive training program, participants will embark on a journey through essential data analysis techniques, spanning from logical and reliable data analysis to advanced methods like regression analysis and analysis of variance.

**Over five enriching days**, participants will delve into topics such as descriptive statistics, pivot tables, and scenario analysis, equipping them with the skills to handle diverse datasets effectively. Through a blend of theoretical insights and hands-on exercises, participants will master techniques for analyzing data mode shapes, performing regression analysis, and utilizing data-driven methods for predictive analytics.

The course culminates with an exploration of analysis of variance and a demonstration of artificial intelligence applications, providing participants with a well-rounded understanding of data analysis techniques and their practical applications.

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## Data Analysis Techniques

### Target Audience

This training program is designed for professionals across various industries seeking to enhance their data analysis skills and proficiency in utilizing Excel and other analytical tools effectively.

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## Data Analysis Techniques

### Learning Objectives

- ✓ Develop proficiency in importing and analyzing data in Excel, employing best practices for accurate and reliable analysis.
- ✓ Master descriptive statistics techniques to derive meaningful insights from data and perform frequency analysis effectively.
- ✓ Utilize pivot tables and pivot charts to visualize and interpret complex datasets, addressing challenges such as noisy and incomplete data and outliers.
- ✓ Acquire skills in data mode shape analysis, including plotting data against time, generating mode shapes, and interpreting time series analyses.
- ✓ Enhance scenario analysis capabilities through dynamic and interactive spreadsheets, employing techniques like what-if analysis and sensitivity measurement to assess different scenarios' impact on outcomes.

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## Data Analysis Techniques

### Course Outline

#### ✓ Day 01

#### **Logical and Reliable Data Analysis, Descriptive Statistics, and Pivot Tables**

- ✓ Importing data into Excel
- ✓ Best practice when analyzing data
- ✓ Analyzing and representing coded data
- ✓ Descriptive statistics and their real meanings
- ✓ Performing a frequency analysis
- ✓ The use of pivot tables and pivot charts
- ✓ Noisy and incomplete data, statistical significance and dealing with outliers

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## Data Analysis Techniques

### Course Outline

#### ✓ Day 02

##### **Data Mode Shape Analysis**

- ✓ Plotting data against time
- ✓ Generating data mode shapes
- ✓ Fitting curves to data
- ✓ Correlating mode shape to time-based events
- ✓ Interpreting time series analyses
- ✓ Moving average calculations

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## Data Analysis Techniques

### Course Outline

#### ✓ Day 03

##### **Scenario Analysis and Interactive Spreadsheets**

- ✓ Representing analytical problems as multi-input, single-output (MISO) systems
- ✓ Deterministic systems analysis
- ✓ What if and visual scenario analysis
- ✓ Dynamic/interactive spreadsheets and the use of forms control
- ✓ Moving window, conditional, and adaptive calculations
- ✓ Measuring the sensitivity of calculated variables

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## Data Analysis Techniques

### Course Outline

#### ✓ Day 04

##### **Regression Analysis and Correlation**

- ✓ Equations of curves
- ✓ The prediction of future behavior using data shape - regression analysis
- ✓ Linear, polynomial, exponential and power curve fits
- ✓ The dangers of over-fitting
- ✓ Data end effects
- ✓ Goodness of fit (sum of square error - SSE) and R2
- ✓ Evaluating equations, solving equations, and using Solver
- ✓ Correlation and causality

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## Data Analysis Techniques

### Course Outline

#### ✓ Day 05

##### **Data Driven Methods and Analysis of Variance**

- ✓ Non-deterministic system
- ✓ Data-driven methods
- ✓ One-step-ahead future prediction using data science (multivariate correlation)
- ✓ Single-factor analysis of variance (ANOVA)
- ✓ Two-factor analysis of variance
- ✓ A demonstration of artificial intelligence - the travelling salesman problem

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## Data Analysis Techniques

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 15, 2026	June 19, 2026	5 days	4950.00 \$	Austria , Vienna
Aug. 31, 2026	Sept. 4, 2026	5 days	4250.00 \$	UAE , Dubai
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai
Jan. 10, 2027	Jan. 14, 2027	5 days	4250.00 \$	KSA , Riyadh

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