



*Training Course:  
Introduction to Data*

*20 - 24 June 2027  
Istanbul (Turkey)  
DoubleTree by Hilton Istanbul Esentepe*

## Training Course: Introduction to Data

Training Course code: IT234613 From: 20 - 24 June 2027 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 6300 ₺ Euro

### Introduction

This course introduces Data Analysis using Python, MySQL, NumPy, and Pandas. It provides a practical foundation for understanding how to collect, clean, explore, analyze, and interpret data. Learners will go through the full data analysis workflow, from posing a question to communicating insights and making data-driven decisions using real datasets and hands-on exercises.

### Course Objectives

- Learn how to define and structure data analysis questions
- Understand how to clean, prepare, and wrangle raw data into usable formats
- Develop skills to explore datasets and identify meaningful patterns
- Perform statistical analysis to support insights and predictions
- Build visual understanding of data using charts and plots
- Communicate findings effectively for business or technical audiences
- Gain hands-on experience with Python, NumPy, Pandas, and MySQL for data analysis tasks

### Target Audience

- Beginners and professionals interested in starting a career in data analysis
- Data analysts who want to strengthen their skills in Python-based data analysis tools
- Students and graduates in computer science, business, or related fields
- Business professionals who need to analyze and interpret data for decision-making
- Developers and engineers who want to transition into data analysis roles
- Anyone interested in learning how to work with data using Python, NumPy, Pandas, and MySQL

### Course Outlines

#### Day 1: Problems Solved by Data Analysts

- Questions about Student Data Solution
- Investigating the Data
- Problems in the Data
- Missing Engagement Records

#### Day 2: Debugging Data Analysis Code

- Making Histograms

- Predicting Based on Many Features
- Improving Plots and Sharing Findings

#### Day 3: NumPy

- One-Dimensional Data in NumPy
- Two-Dimensional NumPy Arrays
- NumPy Arrays
- Vectorized Operations
- Multiplying by a Scalar
- Standardizing Data

#### Day 4: Pandas

- Pandas Series
- Filling Missing Values
- Plotting in Pandas

#### Day 5: Statistics

- Mean, Median and Mode
- Standard Variation, Error mean
- Calculating Correlation

## Registration form on the Training Course: Introduction to Data

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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