

## Master Class: Data Analysis with Python (PYTHON05)

ID PYTHON05 Price CHF 2,550.—(excl. VAT) Duration 3 days

### Who should attend

Data analysts, business analysts, data engineers, BI specialists, database specialists, Excel analysts

### Prerequisites

Course [Master Class: Advanced Python \(Associate Training\) \(PYTHON03\)](#) or equivalent knowledge

### Course Objectives

- Data preparation
- Data transformation
- Quality evaluations
- Analysis
- Data analysis applications
- Introduction to Machine Learning and AI

### Course Content

- Basics of Numpy
  - What this package can do
  - Which data analyses are possible
- Introduction to pandas
  - Pandas Data Structures
  - Functionality
  - Which data analyses are possible and useful with pandas
- Loading and saving data
  - Practical handling of the most important file formats
  - Efficiency, performance and reliability
- Prepare and clean up data
  - Dealing with missing data
  - Data transformation
- Linking, combining and transforming data
- Visualization
- Aggregation and grouping of data
- Time series
- Pandas for advanced learners
- Modelling Libraries
- Examples from data analysis
- Overview learning models with scikit

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## Training Centres worldwide



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