COURSE SYLLABUS

Data Analytics Certificate

Analyze and visualize data with Excel, Python, SQL, and Tableau. Develop statistical skills and apply them to projects for a data analytics portfolio.

> Group classes (NYC) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://training-nyc.com/certificates/data-analytics



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Course Outline

This package includes these courses

- Excel for Data Analytics (18 Hours)
- Data Analytics Foundations (12 Hours)
- Python for Data Science Bootcamp (30 Hours)
- SQL Bootcamp (PostgreSQL) (18 Hours)
- Python for Automation (6 Hours)
- Python Machine Learning Bootcamp (30 Hours)
- Tableau Bootcamp (12 Hours)

This program requires basic Excel skills, such as formatting, calculations, and basic worksheet management. If you want to learn the essentials of Excel before starting the Data Analytics Certificate, email us after you register for the program to attend our Excel Fundamentals class at no additional charge.

- Excel for Business Fundamentals
- Power BI Bootcamp

Excel for Data Analytics

- Learn fundamental database and statistical functions
- Use Pivot Tables and lookup functions (including VLOOKUP)
- Create simple macros to speed up your workflow

Data Analytics Foundations

- Fundamentals of data analytics and statistics
- How to use data for forecasting & decision-making
- How businesses use data analytics in their processes

Python for Data Science Bootcamp

Learn the fundamentals of Python and object-oriented programming in this 5-day intensive course. You'll gain a solid understanding of Python, with a strong emphasis on using libraries and frameworks for data science.

SQL Bootcamp (PostgreSQL)

- Explore information stored in a database (tables, columns, rows, etc.) using the graphical interface of DBeaver (a popular free database app)
- Write SQL queries to retrieve data from tables in a database
- Combine information from multiple tables with JOIN statements
- Filter data, group it, and sort it to extract the specific info you need
- Advanced techniques like Subqueries, String Functions, and IF-Else logic with CASE
- How to use Views and Functions with parameters instead of directly querying tables

Python for Automation

Learn Python web scraping and automation. Write scripts, collect website data, handle errors, and schedule recurring tasks.

Python Machine Learning Bootcamp

Build and evaluate machine learning models in Python. Practice preparing data, selecting features, and comparing model performance.

Tableau Bootcamp

- Learn to identify datasets to connect to, explore, analyze, filter, and structure your data
- Create a variety of maps to represent geographic data
- Build actions to control your visualizations within your sheets and dashboards