

Data Analysis and Visualization with Microsoft Excel and Power Pivot

Price: 795

Duration: 2 days

Delivery Methods: Virtual

Overview

Technology and the data that it both collects and makes accessible is now interwoven with businesses and lives. The era of “big data” has exploded due to the rise of cloud computing, which provides an abundance of computational power and storage, allowing organizations of all sorts to capture and store data. Leveraging that data effectively can provide timely insights and competitive advantage.

Analyzing data to find issues, insights and opportunities, is now a critical part of many job roles. Beyond the analysis, data analysts in all job roles must be able to effectively present and communicate their findings in visually compelling ways.

Microsoft® Excel® is designed for this purpose. Excel can connect to a wide range of data sources, perform robust data analysis and create diverse and robust data-backed visualizations to show insights, trends, and create reports. These capabilities enable people who use Excel for data analysis to turn data into thoughtful action.

Audience Profile

This course is designed for students who already have foundational knowledge and skills in Excel and who wish to perform robust and advanced data and statistical analysis with Microsoft Excel using PivotTables, use tools such as Power Pivot and the Data Analysis ToolPak to analyze data, and visualize data and insights using advanced visualizations in charts and dashboards in Excel.

At Course Completion

In this course (applicable to Excel 2016 and Excel 2019), you will analyze and visualize data using Microsoft Excel and associated tools. You will:

- Analyze data with formulas and functions.
- Create geospatial visualization with Excel.
- Perform statistical analysis.
- Get and transform data.
- Model and analyze data with Power Pivot.
- Present insights with reports.

Outline

Lesson 1: Data Analysis Fundamentals

- Topic A: Introduction to Data Science
- Topic B: Create and Modify Tables
- Topic C: Sort and Filter Data

Lesson 2: Visualizing Data with Excel

- Topic A: Visualize Data with Charts
- Topic B: Modify and Format Charts
- Topic C: Apply Best Practices in Chart Design

Lesson 3: Analyzing Data with Formulas and Functions

- Topic A: Analyze Data with Formulas and Named Ranges
- Topic B: Analyze Data with Functions
- Topic C: Implement Data Validation, Forms, and Controls
- Topic D: Create Conditional Visualizations with Lookup Functions

Lesson 4: Analyzing Data with PivotTables

- Topic A: Create a PivotTable
- Topic B: Analyze PivotTable Data

Lesson 5: Presenting Visual Insights with Dashboards in Excel

- Topic A: Visualize Data with PivotCharts
- Topic B: Filter Data Using Slicers and Timelines
- Topic C: Create a Dashboard in Excel

Lesson 6: **Creating Geospatial Visualizations with Excel**

- Topic A: Create Map Charts in Excel
- Topic B: Customize Map Charts in Excel

Lesson 7: **Performing Statistical Analysis**

- Topic A: Visualize Trendlines and Sparklines with Excel
- Topic B: Analyze Data with the Analysis ToolPak

Lesson 8: **Getting and Transforming Data**

- Topic A: Connect to Data with Queries
- Topic B: Clean and Combine Data
- Topic C: Shape and Transform Data

Lesson 9: **Modeling and Analyzing Data with Power Pivot**

- Topic A: Install Power Pivot in Excel
- Topic B: Create Data Models with Power Pivot
- Topic C: Create Power Pivots
- Topic D: Perform Advanced Data Analysis and Visualization

Lesson 10: **Presenting Insights with Reports**

- Topic A: Plan a Report
- Topic B: Create a Report

Prerequisites

To ensure success, you should have baseline skill using Microsoft Excel worksheets, particularly in creating workbooks with formulas and functions. Additional workplace experience with Excel is highly recommended.

Course Schedule

Date	Time	Price	Options
06/29/2026	08:00 AM - 04:00 PM CT	795.00	Buy Now Enroll
07/23/2026	08:00 AM - 04:00 PM CT	795.00	Buy Now Enroll

Date	Time	Price	Options
09/21/2026	08:00 AM - 04:00 PM CT	795.00	Buy Now Enroll

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FAQ

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