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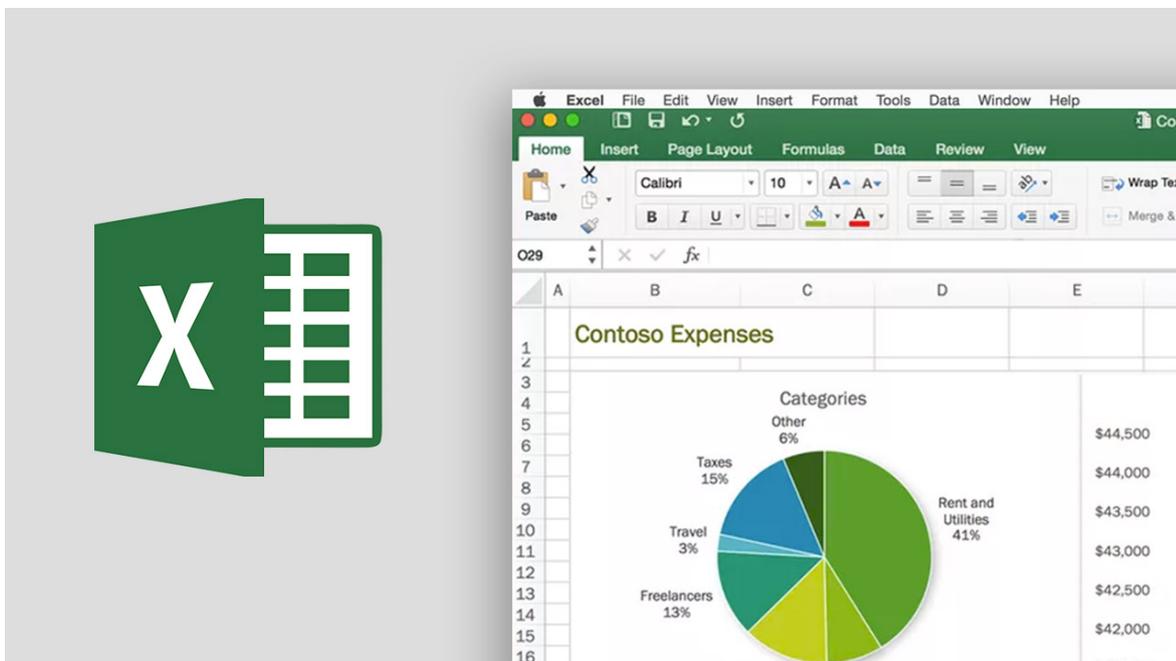
Learning Style: On Demand

Technology: Microsoft

Difficulty: Intermediate

Course Duration: 24 Hours

Analyzing and Visualizing Data with Excel

About this course

Excel is one of the most widely used solutions for analyzing and visualizing data. It now includes tools that enable the analysis of more data, with improved visualizations and more sophisticated business logics. In this data science course, you will get an introduction to the latest versions of these new tools in Excel 2016 from an expert on the Excel Product Team at Microsoft.

Learn how to import data from different sources, create mashups between data sources, and prepare data for analysis. After preparing the data, find out how business calculations can be expressed using the DAX calculation engine. See how the data can be visualized and shared to the Power BI cloud service, after which it

can be used in dashboards, queried using plain English sentences, and even consumed on mobile devices.

Do you feel that the contents of this course is a bit too advanced for you and you need to fill some gaps in your Excel knowledge? Do you need a better understanding of how pivot tables, pivot charts and slicers work together, and help in creating dashboards?

Course Objective:

- Gather and transform data from multiple sources
- Discover and combine data in mashups
- Learn about data model creation
- Explore, analyze, and visualize data

Audience:

- Excel Experts

Prerequisite:

Understanding of Excel analytic tools such as tables, pivot tables and pivot charts. Also, some experience in working with data from databases and also from text files will be helpful.

System Requirements:

1. Windows operating system: Windows 7 or later.
2. Microsoft Excel on Windows operating system:

- Microsoft Excel 2016 Professional Plus or standalone edition
- Microsoft Excel 2013 Professional Plus or standalone edition
- Microsoft Excel 2010
- Other versions of Microsoft Excel are not supported

Course Outline:

Module 1

- Data Analysis in Excel
- Lab: Explore and Extend a Classic Excel Dashboard

Module 2

- The Excel Data Model
- Basic DAX
- Lab: Explore an Excel Data Model

Module 3

- Importing Data from a CSV File
- Lab: Importing Data from a CSV File

Module 4

- Importing Data from Databases
- Importing Data from Multiple Files
- Create a Date Table in Excel Data Model
- Lab: Creating Mash-ups of Data from Multiple Sources

Module 5

- Creating and Formatting Measures
- Using Advanced DAX Functions
- Lab: Creating Measures using Advanced DAX Functions

Module 6

- Importing Data from a Formatted Excel Report
- Lab: Advanced Text Query

Module 7

- Visualizing Data in Excel
- Lab: Data Visualizations in Excel

Module 8

- Using Excel with Power BI
- Power BI Mobile App

Course Wrap-up

- Course Wrap-up?

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