Analyzing Data with Excel

The main purpose of the course is to give participants the ability to add BI techniques to Excel data analysis.

The course goes beyond the capabilities of tables and charts and uses Pivot Charts, the Excel Data Model, and Power BI

Who Should Attend

This course is intended for participants who are experienced with analysing data with Excel and who wish to add BI techniques
The course will likely be attended by SQL Server report creators who are interested in alternative methods of presenting data.

Course Prerequisites

Before attending this course, participants should have:

> Basic knowledge of the Microsoft Windows operating systems and its core functionality
> Working knowledge of relational databases
> Extensive knowledge of Excel spreadsheets including formulas, charts, filtering, sorting and sub-totals
> Basic knowledge of data analytics equivalent to having attended course 10944

Course Objectives

After completing this course, participants will be able to:

> Explore and extend a classic Excel Dashboard
> Explore and extend an Excel data model
> Pre-format and import a .CSV file
> Import data from a SQL Server database
> Import data from a report
> Create measures using advanced DAX functions
> Create data visualisations in Excel
> Create a Power BI dashboard with Excel

Course Code: 20779a
Course Duration: 3 Days
SATV: Yes

Course Summary

Module 1: Data Analysis in Excel

Module 2: The Excel Data Model

Module 3: Importing Data from Files

Module 4: Importing Data from Databases

Module 5: Importing Data from a Report

Module 6: Creating and Formatting Measures

Module 7: Visualising Data in Excel

Module 8: Using Excel with Power BI

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Course Outline

Module 1:   Data Analysis in Excel

This module looks at the classic Excel dashboard and at ways to extend it

> Classic Data Analysis with Excel
> Excel Pivot Tables
> Limitations of Classic Data Analysis

Module 2:   The Excel Data Model

This module looks at the classic Excel data model and at ways to extend it

> Using an Excel Data Model
> DAX

Module 3:   Importing Data from Files

This module looks at pre-formatting and importing CSV files

> Importing Data into Excel
> Shaping and Transforming Data
> Loading Data

Module 4: Importing Data from Databases

This module looks at how to import data into Excel from a SQL Server database

> Available Data Sources
> Previewing, Shaping and Transforming Data
> Table Relationships and Hierarchies
> Loading Data

Module 5: Importing Data from Excel Reports

This module describes how to import data from a report

> Importing Data from Excel
> Transforming Excel Report Data

Module 6: Creating and Formatting Measures

This module describes how to create and format measures

> DAX
> Measures
> Advanced DAX Functions

Module 7: Visualising Data in Excel

This module describes how to visualize data in Excel

> Pivot Charts
> Cube Functions
> Charts for Cube Functions

Module 8: Using Excel with Power BI

This module describes how to use Excel with Power BI.

> Power BI
> Uploading Excel Data to Power BI
> Power BI Mobile App

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