Analyzing Data with Excel - MOC On Demand (MS-20779)

Modality: On Demand

Duration: 2 Days

SATV Value: 2

This course is for professionals planning to enroll in the 70-779 Exam leading to the 70-779 Certification. The official exam voucher is not included in this course. However, the official exam voucher can be purchased separately on request.

About this Course:

This course is only accessible for 90 days from the enrollment date and is a Microsoft On-Demand Course. Candidates having annual subscriptions or candidates who purchase this course individually will lose access to this course after 90 days.

This intermediate-level course provides a comprehensive overview of Microsoft Excel focusing on its analytical tools and functionalities such as Pivot Tables, Charts, Formulas, and Data Visualization Tools. Professionals get to learn about Visual Basic and builds familiarity with the Business Intelligence Tools and Techniques for Data Analysis. This course introduces professionals to both basic and advanced Microsoft Excel features used to analyze and work with big business data.

Course Objectives:

The core objective of this course is to help professionals develop a sound knowledge and understanding of the following key concepts:

- Classic Microsoft Excel Dashboard Exploration and Extension
- .CSV File Formatting and Importation
- Data Importation from SQL Server Databases and Reports
- Excel Data Model Exploration and Extension
- Advanced DAX Functions Measures Development
- Microsoft Excel Data Visualization Development
- Power BI Dashboard Creation in Microsoft Excel

Audience:

This course is specifically tailored for the following group of professionals and interested candidates:

- Candidates striving to learn Excel Data Analysis and Business Intelligence Techniques
- SQL Server Report Creators
- Professionals interested in learning unique methods of Data Presentation

Prerequisites:

Professionals planning to enroll in the Analyzing Data with Excel – MOC On-Demand (MS-20779) Course must comply with the following prerequisites:

- Foundational Knowledge of Core Functionalities of Windows Operating System
- Familiarity with Relational Databases
- Working Knowledge of Excel Spreadsheets (Charts, Formulas, Sorting, Filtering, etc.)

Course Outline:

Module 1: Data Analysis in Excel

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

Lessons

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

Lab : Building a Classic Excel Dashboard

- Filtering and Formatting Data
- Building a Pivot Table
- Building a Pivot Chart
- Building a Dashboard

After completing this module, students will be able to:

- Describe classic data analysis with Excel
- Describe Excel pivot tables
- Describe the limitations of classic data analysis with Excel

Module 2: The Excel Data Model

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

Lessons

- Using an Excel Data Model
- DAX

Lab : Explore an Excel Data Model

- Create Calculated Columns
- Format Data Model Data
- Create Measures
- Analyze the Data

After completing this module, students will be able to:

- Describe an Excel data model
- View data within an Excel data table
- Describe DAX

Module 3: Importing Data from Files

This module looks at pre-formatting and importing CSV files.

Lessons

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

Lab : Importing Data from a CSV File

- Import and Transform Data from a CSV File
- Add Data from a Folder

After completing this module, students will be able to:

- Import data into excel.
- Shape and transform data.
- Load data.

Module 4: Importing Data from Databases

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

Lessons

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

Lab : Import Data from Multiple Sources

- Import Data from SQL Server
- Import Data from a CSV File
- Create a Data Table

After completing this module, students will be able to:

- Identify available data sources.
- Preview, shape, and transform data.

- Explain table relationships and hierarchies.
- Load data from various sources.

Module 5: Importing Data from Excel Reports

This module describes how to import data from a report.

Lessons

- Importing Data from Excel Reports
- Transforming Excel report Data

Lab : Importing Data from a Report

- Import Data from Excel
- Transform the Excel Data
- Load the Data into an Excel Data Model

After completing this module, students will be able to:

- Import data from Excel reports.
- Transform Excel report data.

Module 6: Creating and Formatting Measures

This module describes how to create and format measures.

Lessons

- DAX
- Measures
- Advanced DAX Functions

Lab : Creating Measures using Advanced DAX Functions

- Last year comparison
- Year to date
- Market Share

After completing this module, students will be able to:

- Explain what DAX is and when to use it.
- Describe a measure.
- Use some of the advanced functions within DAX.

Module 7: Visualizing Data in Excel

This module describes how to visualize data in Excel.

Lessons

- Pivot Charts
- Cube Functions
- Charts for Cube Functions

Lab : Data Visualization in Excel

- Create a Tabular Report
- Create a Pivot Chart
- Add Slicers to Charts

After completing this module, students will be able to:

- Create and refine a pivot chart.
- Describe cube functions and when to use them.
- Describe a number of charts for use with cube functions.

Module 8: Using Excel with Power BI

This module describes how to use Excel with Power BI.

Lessons

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

Lab : Creating a Power BI Dashboard with Excel

- Uploading Excel Data
- Creating a Power BI Dashboard

After completing this module, students will be able to:

- Describe Power Bi and the various versions available.
- Upload Excel data to Power BI.
- Describe the Power BI App.