



INSTITUTE OF
MANAGEMENT
PROFESSIONALS



Data Analysis & Visualization with Microsoft Excel & PowerBI



About IMP

- Institute of Management Professionals (IMP) is an independent professional institute partnering with consultation companies in various fields dedicated to bringing all related marketing, sales and business development training, Our mission is to help individuals with a competitive edge in their careers to face different job and life challenges.
- Our training courses are designed and delivered by subject experts who are competent in providing solutions which is applicable to today's business challenges.

Introduction

- Business intelligence (BI) is a term that has become increasingly common over recent years. Along with big data, data mining, predictive analytics, data science, and data stewards, BI is now very much part of business vocabulary.
- The main purpose of this program is to give audiences the ability to analyze their business data using BI techniques. The program goes beyond the capabilities of tables and charts, and uses Pivot Charts, the Excel Data Model, and Power BI.

Program Added Value:

Upon completing this program, audiences will be able to

- Create and format measures and KPIs.
- Create Pivot Charts, use cube functions, and construct graphs that can summarize the information retrieved by using cube functions.
- Build Excel Data Model, connect to databases, transform the data into a convenient form, and load the data into Excel tables or into the data model.
- Transform formatted Excel reports into usable data to perform further analysis.
- Describe the trends in BI, describe the process of data analysis in Power BI.
- Use the key visualizations in Power BI and describe the rationale for self-service BI.
- Use Q&A to ask questions in natural query language, and create content packs and groups.
- Use the Microsoft Power BI suite of tools to connect to a wide variety of data sources. These include the main industry-standard databases, Microsoft cloud-based services—Microsoft Azure SQL Database, Azure Data Lake, and Azure Machine Learning—alongside Microsoft Excel® and other files, and software as a service (SaaS) providers such as Microsoft Bing®, Facebook, and MailChimp.
- Advance beyond the scenes of the visualizations, and explore the techniques and features on offer to streamline and enhance their abilities to gain insights, create valuable reports, while helping to manage the ever evolving volumes of data.

Contents

1. Data Analysis in Excel

- Basic Excel functions & formulas (Task Based).
- Classic data analysis with Excel.
- Excel PivotTables.
- Limitations of classic data analysis.

2. The Excel Data Model

- Using an Excel data model.
- Data Analysis Expressions (DAX).

3. Importing Data from Files

- Importing data into Excel.
- Shaping and transforming data.
- Loading data.

4. Importing Data from Databases

- Available data sources.
- Previewing, shaping, and transforming data.
- Loading data.
- Table relationships and hierarchies.

5. Importing Data from Excel Reports

- Importing data from Excel reports.
- Transforming Excel report data.

6. Creating and Formatting Measures

- Data Analysis Expressions (DAX).
- Measures and KPIs.
- Advanced DAX functions.

Contents

7. Visualizing Data in Excel

- Using PivotCharts.
- Using Cube functions.
- Creating charts for cube functions.

8. Using Excel with Power BI

- Introduction to Power BI
- Using Excel as a Data Source for Power BI
- Power BI Mobile App

Program Credits:

Upon completing this program, audiences will be able to pass the following exams:

- **Exam 70-779 : Analyzing and Visualizing Data with Microsoft Excel**
- **Exam 70-778: Analyzing and Visualizing Data with Microsoft Power BI**

Extra Information:

- Duration: 40 Hours .
- Location: 37 Amman St., Mohy Eldin Abo Elezz, Mohandseen, Giza, Egypt, (Fourth Floor).
- Certification: Available upon attending at least 65% of the program.
- Postponing: Available only if requested by a trainee before the start of the program with minimum 3 days.
- For Inquiries:

Website: <https://imanagementpro.com>

E-mail: info@imanagementpro.com

Mobile: 02 01024447228

Phone: 02 3762 7784