



CENTRAL BANK OF EGYPT
Egyptian Banking Institute

Analyzing Data with Excel

Data Analysis



7123-V1



In-Class



24 hours

Course Description:

This course is designed for business professionals, analysts, and Excel users who want to strengthen their data analysis skills. Through practical exercises and guided instruction, participants will learn how to import data from various sources, build Excel Data Models, apply DAX functions, and create powerful visualizations. By the end of the program, learners will be able to independently perform advanced data analysis in Excel and integrate it seamlessly with Power BI to deliver accurate, insightful business reports.

Target Audience:

This course is intended for business analysts, financial professionals, and decision-makers who need to enhance their ability to process, model, and visualize data using Excel in order to support effective business decisions.

Course Objectives:

By the end of this course, learners will be able to:

- Apply classic Excel techniques and construct PivotTables.
- Utilize the Excel Data Model and DAX formulas to perform structured analysis.
- Transform data and load clean datasets into Excel for analysis.
- Analyze available database sources, and construct relationships and hierarchies for advanced analysis.
- Transform structured and unstructured Excel reports into usable analytical datasets.
- Apply DAX functions, develop measures, and advanced calculations for business insights.
- Create reports using Cube Functions, and construct an effective visual dashboard.
- Integrate Excel data into Power BI.

Course Outline:

Module 1: Data Analysis in Excel

- Classic Data Analysis with Excel
- Excel PivotTables
- Limitations of Classic Data Analysis

Module 2: The Excel Data Model

- Using an Excel Data Model
- DAX

Module 3: Importing data from files

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

Module 4: Importing data from databases

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

Module 5: Importing data from Excel reports

- Importing Data from Excel Reports
- Transforming Excel Report Data

Module 6: Creating and formatting measures

- Data Analysis Expressions
- Measures
- Advanced DAX Functions

Module 7: Visualizing data in Excel

- Using Pivot Charts
- Using Cube Functions
- Creating Charts for Cube Functions

Module 8: Using Excel with Power BI

- Power BI
- Using Excel As a Data Source in Power BI
- Power BI Mobile App

Assessment and Attendance Strategy:

- Participants will be evaluated based on their participation in class discussions and individual exercises.
- Each Participant must achieve 80% attendance of the total in-class sessions.



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Course Language:

- Material: English
- Instruction and Explanation: Bilingual (EN <>AR)

Prerequisites:

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Good knowledge of Excel spreadsheets, functions, and charts.
- Working knowledge of relational databases.