



CENTRAL BANK OF EGYPT  
Egyptian Banking Institute

# Data Analysis using Power BI

## Information Technology



7124



In-Class



32 hours



EGP 8,000

### Course Description:

This course covers the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will show how to access and process data from a range of data sources including both relational and non-relational sources. Finally, this course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution

### Target Audience:

The audience for this course is data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist both in the cloud and on-premises.

### Course Objectives:

When you complete this Power BI course, you will be able to accomplish the following:

- Understand the fundamentals of Microsoft Data Analytics.
- Prepare data in Power BI.
- Clean, transform, and load data in Power BI.
- Design a data model in Power BI.
- Create measures using DAX in Power BI.
- Optimize model performance.
- Create reports.
- Create dashboards.
- Perform advanced analytics.
- Create and manage workspaces.
- Manage datasets in Power BI.
- Implement row-level security.

### Course Outline:

#### Module 1: Get Started with Microsoft Data Analytics.

- Data Analytics and Microsoft.
- Getting Started with Power BI.

#### Module 2: Get Data in Power BI.

- Get Data from Various Data Sources.
- Optimize Performance.
- Resolve Data Errors.

#### Module 3: Clean, Transform, and Load Data in Power BI.

- Data Shaping.
- Data Profiling.
- Enhance the Data Structure.

#### Module 4: Design a Data Model in Power BI.

- Introduction to Data Modeling.
- Working with Tables.
- Dimensions and Hierarchies.

#### Module 5: Create Measures using DAX in Power BI.

- Introduction to DAX.
- Real-time Dashboards.
- Advanced DAX.

#### Module 6: Optimize Model Performance

- Optimize the data model for performance.
- Optimize Direct Query Models.

#### Module 7: Create Reports.

- Design a Report.
- Enhance the Report.

#### Module 8: Create Dashboards.

- Create a Dashboard.
- Real-time Dashboard.
- Enhance a Dashboard.

#### Module 9: Perform Advanced Analytics.

- Advanced Analytics.
- Data Insights Through AI Visuals.

#### Module 10: Create and Manage Workspaces.

- Creating Workspaces.
- Sharing and Managing Assets.



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## Module 11: Manage Datasets in Power BI.

- Parameters.
- Datasets.

## Module 12: Row-level security.

- Security in Power BI.

## Assessment 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.

## Course Language:

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

## Prerequisites:

No prerequisite for this course