

# INTRODUCTION TO POWER BI AND DAX



## DURATION

4 HALF-DAYS

## ABOUT THE COURSE

This course is focused on introducing users to the fundamentals of Power BI and DAX in a hands-on and interactive environment.

Throughout the course, users will be guided through an end-to-end analytics scenario using a combination of lectures, demos, and hands-on labs to reinforce understanding of the data analysis process.

Learn the Power BI skills that will get you started with self service business analytics and sharing discovered insights.

# COURSE SYLLABUS

## 1 UNDERSTAND THE POWER BI ECOSYSTEM

- ✓ Describe the Power BI ecosystem
- ✓ Define Power BI and its relationship with Excel
- ✓ Discuss the Power BI suite of products
- ✓ Describe how the Power BI products integrate
- ✓ Explain the typical analytics process flow

## 2 APPLY DATA PREPARATION SKILLS USING POWER QUERY

- ✓ Differentiate between the various data sources
- ✓ Connect Power BI to a data source
- ✓ Clean and transform data to ensure data quality
- ✓ Load the data to the Power BI Data Model

## 3 DESIGN A POWER BI DATA MODEL TO DELIVER SELF-SERVICE ANALYTICS

- ✓ Define relationships between facts and dimensions.
- ✓ Define cardinality and filter direction.
- ✓ Describe column formatting and properties.
- ✓ Create and format hierarchies.

## 4 CREATE DAX EXPRESSIONS TO ENHANCE THE POWER BI DATA MODEL

- ✓ Define DAX formulas and its applications
- ✓ Discuss DAX best practices
- ✓ Explain syntax rules
- ✓ Create basic calculated columns and measures
- ✓ Discuss Row and Filter context
- ✓ Apply common DAX expressions such as FILTER, SUM
- ✓ Discuss Time Intelligence functions

# COURSE SYLLABUS

## **5** CREATE AND FORMAT REPORTS USING THE POWER BI DESKTOP

- ✓ Describe the use of Page Backgrounds and Templates
- ✓ Create visualizations to display the data
- ✓ Apply drill through and drill down
- ✓ Create and manage slicers with the use of filters.
- ✓ Explore visual interactions
- ✓ Review Bookmarks
- ✓ Publish the report to the Power BI Service

## **6** CREATE AND FORMAT VISUALIZATIONS USING THE POWER BI SERVICE

- ✓ Build additional reports in the Power BI Service
- ✓ Compile and configure reports into a Dashboard
- ✓ Construct a Power BI Mobile dashboard
- ✓ Add a Quick Insights results to a report
- ✓ Implement and use Q&A visual

## **7** COLLABORATE USING THE POWER BI SERVICE

- ✓ Explain how to share dashboards and reports
- ✓ Explore comments in reports and dashboards
- ✓ Format Row Level Security
- ✓ Explore Object Level Security