



## POWER BI



### COURSE OVERVIEW

This training program is designed to equip participants with the knowledge and skills to effectively utilize Microsoft Power BI. Power BI is a powerful business intelligence tool that allows users to connect to various data sources, create data models, design interactive dashboards, and generate insightful reports. Through hands-on exercises and practical examples, participants will learn the end-to-end workflow of business intelligence, data modeling, data visualization, and leveraging Power BI services.

### DATES, VENUES AND FEES



05 – 09 January 2025 - Dubai  
06 – 10 April 2025 – Doha  
15 – 19 June 2025 - Dubai  
14 – 18 September 2025 - Dubai  
(5 Days)

Fees

US\$ 4500

**Note:** Fee is per participant + 5% VAT (if applicable).  
Groups from the same company can enjoy a **discounted** price.

### WHO SHOULD ATTEND?

This course is appropriate for a wide range of professionals but not limited to:

- Individuals interested in hands-on learning about Microsoft Power BI Desktop
- Data analysts and Excel users seeking to develop advanced data modeling, dashboard design, and business intelligence skills
- Data Scientist
- AI Engineer
- BI Specialist
- Managers who want to learn how to use BI tools to make better business decisions

### CONTACT US NOW

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## ACCREDITATION



**This training course is certified by CPD.**

The CPD Certification Service is the leading independent CPD accreditation institution operating across industry sectors to complement the Continuing Professional Development policies of professional institutes and academic bodies. The CPD Certification Service provides support, advice, and recognised independent CPD accreditation compatible with global CPD principles. CPD is the term used to describe the learning activities professionals engage in to develop and enhance their abilities and keep skills and knowledge up to date. CPD Units are only awarded to programmes after each programme is scrutinised to ensure integrity and quality according to CPD standards and benchmarks.

## COURSE CERTIFICATE

**MSTC** certificate will be issued to all attendees completing a minimum of 80% of the total tuition hours of the course.

**CPD** internationally recognized certificate will be issued for all participants who will meet the course requirements. CPD certificates will be issued within a month of the successful completion of the course.

## TRAINING METHODOLOGY

- Expert instructor lecture, input using numerous visual aids
- Supportive comprehensive course manual enabling practical application and reinforcement
- Participant discussion and involvement regarding their specific projects and challenges
- Real-world case studies and best practices

## LEARNING OBJECTIVES

By the end of this course, participants should be able to:

- Understand the business intelligence workflow from end-to-end
- Perform data modeling and create relationships in Power BI
- Gain proficiency in using DAX (Data Analysis Expressions)
- Master data visualization techniques using different charts and visual elements
- Publish BI report to Power BI service and share it with other users
- Explore the features and capabilities of Power BI services

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## COURSE OUTLINE

### DAY 1

#### Module 1: Introduction to Power BI

- Introduction to Data Analysis and Business Intelligence
- Overview of self-service business intelligence (SSBI) tools
- Comparison between traditional BI and Power BI
- Installing Power BI Desktop and Datasets
- Introduction to Power BI elements
- Power BI installation
- Power BI workflow

#### Module 2: Connecting With Different Data Source Using Connectors in Power BI Desktop

- Data connectors and data source connections
- Connecting with CSV, XLSX
- Connecting with Microsoft SQL database
- Introduction to Query Editor
- Data Exploration

### DAY 2

#### Module 3: Data Exploration and Transformation Using Query Editor

- Power Query Transformation vs. Add Column Options
- Text Column Transformation
- Working with number-specific and data-specific tools
- Data Transformation for Date Column
- Merging/joining queries
- Apply data appending/union
- Using folder option to append rows
- Pivoting and unpivoting data
- Grouping data
- Adding conditional columns
- Adding index columns
- Data source settings
- Query refreshing and data category definition
- LAB – Connecting and shaping data with Power BI Desktop

### DAY 3

#### Module 4: Data Modelling

- Introduction to database normalization
- Understand the difference between primary and foreign key
- Data ("Fact") tables vs. Lookup ("Dimension") tables
- Understanding "Star" vs. "Snowflake" schemas
- Creating table relationships in Power BI
- Active vs. inactive relationships
- Hiding fields from the Power BI report view
- Connecting multiple data tables
- Filtering and cross-filtering techniques
- LAB – Data Modelling

### DAY 4

#### Module 5: DAX (Data Analysis Expressions)

- Importance of DAX in Power BI
- DAX syntax and data types
- Calculated fields vs. measures
- Working with measures and DAX operators
- Exploring DAX operators
- Text functions
- Time functions
- Logical functions
- Statistical functions
- Introduction to Data Visualization
- LAB - DAX

### DAY 5

#### Module 6: Data Visualization

- Creating a complete visual report using 10 different charts
- Adding text, images and shapes
- Explore different formatting options for each visual
- Utilizing slicers for data filtering and customization using user filter, pre-defined filter and sync filters
- Using Bookmark

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- Key performance indicator (KPI) visuals
- Row level security
- Creating mobile reports

#### **Module 7: Power BI Services**

- Introduction to Power BI Service
- Creating workspaces in Power BI Service
- Publishing reports
- Dashboard vs. reports
- Sharing BI reports
- Creating and Managing Dashboards
- Power BI Q&A
- Explaining Report scheduling concept

There will be available laptop for each participant in order to conduct practical training on Power BI software.

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