

# Data Visualization using Power BI

Power BI is a business intelligence and dashboarding product from Microsoft that gives organizations a comprehensive view of what is happening across all operational levels of the business. You can create reports with drill-down features, access-level restrictions, auto-refresh, alerts/triggers, and interactivity.

**Duration: 1 month, minimum of 2 hours per week**

## An outline of the training content

This training course gives a beginner to intermediate user of Power BI a complete overview of the various parts of Power BI Desktop, Power BI online service, and Power BI mobile applications. Reviewed the best practice techniques in developing reports on Power BI desktop and how to use Power BI within your organization by harnessing the online service features.

## What you'll learn

- Learn - the background of how Power BI got to its current form
- Understand - the key features across the entire Power BI suite
- Learn - the 'must knows' around how to use Power BI effectively
- Master - the 7 pillars for developing analytical solutions in Power BI
- Practice - loading & transforming data, data modelling, DAX calculations & report development
- Grasp - theoretical and practical concepts of building analytical models
- Review - DAX formulas and how to put these into practice in your analysis
- Learn - some advanced DAX techniques
- Learn - how to develop reports that look compelling and showcase quality insights
- Understand - how to use the online service as a distribution mechanism for your analysis
- Learn - best practice tips for using Power BI within your organization

# Power BI Course Content

## 1. Introduction

- What is Power BI and why you need to learn it?
- A review of the data scenario
- Setting up your Power BI model

## 2. Querying & Transforming Data

- Query editor explained
- Simple transformations
- Creating a date table
- Organizing your queries
- Advanced transformations

## 3. Data Modelling

- What is data modeling?
- Relationships between tables

## 4. DAX Calculations

- What is DAX?
- Measure groups
- Simple measures
- Measure branching
- Advanced DAX

## 5. Reports & Visualisations

- Visualisation options
- Colour and themes
- Custom visuals
- Visualization best practices

## 6. Online Service

- Publish to online service
- Dashboards & Apps
- Natural language query
- Distribution features

## 7. Use Cases Examples and Template

- Step-by-step work through a real-world scenario

## Hands-on Project