

# Power BI

The background features a large yellow archway. On the left, there are several interlocking gears in shades of orange and red. In the center, a bar chart with four yellow bars of increasing height is shown. On the right, a blue hexagonal icon contains a person silhouette. A dotted horizontal line and a vertical dashed line are also present.

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## Lesson 1 – Power BI Desktop Introduction

- Get the Power BI Desktop
- Power BI Desktop Overview and Terminology
- Imports
- Visualisations
- Filters and Queries
- Reports

## Lesson 2 – Power BI Data Sources

- Power BI Desktop Compatible Data Sources
- Get Data and Query Editor
- Direct Query vs Import Data
- Defining Hierarchies based on a single Table
- Set up and Manage Relationships between Tables
- Use Append Queries
- Merge Data Tables
- The Options Button and Global Settings

## Lesson 3 – Power BI Visualisations

- Creating Visualisations
- Colour Formatting
- Setting Sort Order
- Scatter and Bubble Charts
- Slicers, Timeline Slicers and Sync Slicers
- Cross Filtering and Highlighting
- Visual, Page and Report Level Filters
- Drill Up, Down and Through
- Hierarchies
- Reference / Constant Lines
- Tables, Matrices and Conditional Formatting
- KPIs, Cards and Gauges
- Map Visualisations
- Custom Visuals
- Custom Report Themes
- Grouping and Binning
- Selection Pane and Bookmarks



## Lesson 4 – Querying Data with Power BI

- Query Editor
- Filters and Delimiters
- Transforms
- Pivot and Group By
- Creating Custom Calculated Columns
- Adding Conditional Columns
- Introduction to Data Analysis Expression (DAX)
- Histograms

## Lesson 5 – Reports and Exports in Power BI

- Personal vs App Workspaces
- Power BI Service
- Report Elements and Options
- Working with Pages
- Adding Graphics
- Report Level Filters
- Report Themes
- Export Power BI Data to CSV
- Create a Power BI Template

## Lesson 6 – Sharing Content in Power BI

- Sharing Dashboards with internal and external users
- Sharing content with Office 365 groups
- Creating Power BI Apps
- Consuming Power BI Apps
- Using Publish to Web with Dashboards

## Lesson 7 – The Power BI App

- Supported Platforms
- Creating Dashboards for Mobile devices
- Accessing Reports and Dashboards from Mobile

## Lesson 8 – Data Analysis Expression (DAX)

- DAX Overview
- DAX data types and operators
- Common DAX functions
- Referencing other tables in DAX
- Using CALCULATE
- EARLIER and EARLIEST

## Lesson 9 – Data Analysis Expression (DAX)

- Power BI Personal Gateway
- Working with OneDrive
- Working with SharePoint Lists

