

Module overview – Data Analysis and Visualization Using Power BI

Learn Power BI, a powerful cloud-based service that helps users to visualize and share insights from their data. This is a practical course with minimum technical IT / database jargon. Participants will learn by completing hands-on project using real (anonymized) data.

This course is for participants whose job responsibilities include creating Excel reports, transform and shape data as well as performing **business analytics**.

Category	Skill set
Module 1: Introduction to Data Management	<ul style="list-style-type: none"> • The dominant types of data analytics • Key concepts in data modelling and design • The core value of business intelligence and data visualization
Module 2: Getting Started With Power BI	<ul style="list-style-type: none"> • Getting data into Power BI • Connecting from multiple data source • Import/upload, direct query and live connection • Explore Power BI workspace
Module 3: Design Reports and Dashboards	<ul style="list-style-type: none"> • Overview of Power BI reports • Create and format visualizations • Design visuals that provide insights and context • Introducing Quick Insights • Create and edit multiple dashboards • Introducing natural-language queries • Share and publish reports and dashboards
Module 4: Data Modelling I	<ul style="list-style-type: none"> • Overview of data modelling • Merge and append multiple datasets • Data transformation using Query Editor • Create relationships (one to many, many to many)
Module 5: Data Modelling II Introduction to DAX (Data Analysis Expressions) DAX syntax and functions Filter context and row context	<ul style="list-style-type: none"> • Introduction to DAX (Data Analysis Expressions) • DAX syntax and functions • Filter context and row context

Create calculated measures, columns and tables

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Module 6: Analytic Functionalities

- Create powerful and advance visuals using custom visuals
- Using conditional formatting
- Using Analytics pane to add dynamics reference line
- Using Forecast functionality
- Using Insights to explain increase or decrease
- Using Key Influencers and Top Segments

Module 7: Power BI Mobile App

- Introduction to Power BI Mobile App
- Explore dashboards and reports in Mobile App
- View reports optimized for phone
- Annotate and share a visual in Mobile App

Module 8: Hands-on Project

- Hands on project

What are the benefits of this module?

Power BI, a powerful cloud-based service that helps users to visualize and share insights from their data.

Learning outcomes

On completion of this module the candidate will be able to:

- Get data into Power BI from multiple data sources
- Edit, transform and load (ETL) data using Power BI Desktop
- Prepare data for analysis and visualization
- Create visuals that provide insights and context
- Create dashboards for decision making
- Use natural language queries
- Share and publish reports to Power BI Service / Online
- Create visuals and dashboards for viewing in mobile devices