

COURSE OVERVIEW

Course Name:

Microsoft Power BI Data Analyst
PL-300T00

COURSE DURATION: 3 Days

Gauteng:

3rd Floor, 34 Whitely Road
Melrose Arch
Johannesburg
2196

Gauteng:

192 on Bram
192 Bram Fischer Drive
Ferndale, Randburg
Johannesburg
2160

Cape Town:

3rd Floor, Thomas Pattullo Building
19 Jan Smuts St
Cape Town
8000

Durban:

9 Mountview Close
Broadlands
Mount Edgecombe
Durban
4302

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COURSE OVERVIEW

This course will discuss the various methods and best practices for modelling, visualising, and analysing data with Power BI.

The course is designed for Data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI.

COURSE OBJECTIVES

By the end of this course, you will be able to:

- Ingest, clean, and transform data
- Model data for performance and scalability
- Design and create reports for data analysis
- Apply and perform advanced report analytics
- Manage and share report assets
- Create paginated reports in Power BI

DELIVERY METHOD

Our courses offer flexible delivery options:

- In-person classroom training at the Impactful training facilities in Johannesburg, Durban and Cape Town
- Virtual instructor-led training
- Nationally: On-site at the client

COURSE CONTENT

Module 1: Get started with Microsoft Data Analytics

- Explore the different roles in data
- Identify the tasks that are performed by a data analyst
- Describe the Power BI landscape of products and services
- Use the Power BI service

Module 2: Prepare Data in Power BI

How to identify and retrieve data.

- Identify and retrieve data from different data sources
- Understand the connection methods and their performance implications
- Use Microsoft Dataverse
- Connect to a dataflow

Module 3: Clean, Transform & Load Data

Prepare data for loading into the model.

- Apply data shape transformations
- Enhance the structure of the data
- Profile and examine the data

Module 4: Design a data model in Power BI

Design and develop a data model for proper performance and scalability.

- Understand the basics of data modelling
- Define relationships and their cardinality
- Implement Dimensions and Hierarchies
- Create histograms and rankings

Module 5: Create Model Calculations using DAX

Solve calculation and data analysis problems.

- Understand Data Analysis Expressions
- Use DAX for simple formulas and expressions
- Create calculated tables and measures
- Build simple measures
- Work with Time Intelligence and Key Performance Indicators

Module 6: Optimise Model Performance in Power BI

Optimise a data model for enterprise-level performance

- Understand the importance of variables
- Enhance the data model
- Optimise the storage model
- Implement aggregations

Module 7: Create Reports in Power BI

Concepts and principles of designing and building a report

- Design a report page layout
- Select and add effective visualisations
- Add basic report functionality
- Add report navigation and interactions
- Improve report performance
- Design for accessibility

Module 8: Create Dashboards in Power BI

Tell a compelling story using dashboards and navigation tools.

- Create a Dashboard
- Understand real-time Dashboards
- Enhance Dashboard usability

Module 9: Enhance reports for usability and storytelling in Power BI

Understand paginated reports. Build and publish a report

- Explain paginated reports
- Create a paginated report
- Create and configure a data source and dataset
- Work with charts and tables
- Publish a report

Module 10: Perform Advanced Analytics in Power BI

Enhance the report for analytical insights in the data. Perform advanced analytics using AI visuals.

- Explore statistical summary
- Use the Analyse feature
- Identify outliers in data
- Conduct time-series analysis
- Use the AI visuals
- Use the Advanced Analytics custom visual

Module 11: Manage Datasets in Power BI

Publish datasets to the Power BI service, then refresh and secure them.

- Create and work with parameters
- Manage datasets
- Configure dataset refresh
- Troubleshoot gateway connectivity
- Understand the aspects of Power BI security
- Configure row-level security roles and group memberships

Module 12: Create and Manage Workspaces in Power BI

Share content, including reports and dashboards.

- Create and manage a workspace
- Understand workspace collaboration
- Monitor workspace usage and performance
- Distribute an App
- Configure dataset refresh
- Troubleshoot gateway connectivity
- Understand the aspects of Power BI security
- Configure row-level security roles and group memberships