



Microsoft Power BI Data Analyst

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About Cognixia

Cognixia- A Digital Workforce Solutions Company is dedicated to delivering exceptional trainings and certifications in digital technologies. Founded in 2014, we provide interactive, customized training courses to individuals and organizations alike, and have served more than 130,000 professionals across 45 countries worldwide.

Our team of more than 7000 industry experts facilitate more than 450 comprehensive digital technologies courses, along with state-of-the-art infrastructure, to deliver the best learning experience for everyone. Our comprehensive series of instructor-led online trainings, classroom trainings and on-demand self-paced online trainings cover a wide array of specialty areas, including all of the following:

- IoT
- Big Data
- Cloud Computing
- Cyber Security
- Machine Learning
- AI & Deep Learning
- Blockchain Technologies
- DevOps

Cognixia is ranked amongst the top five emerging technologies training companies by various prestigious bodies. We're also RedHat Enterprise Partner, Microsoft Silver Learning Partner and an authorized training partner for ITIL, Automation Anywhere and ISC2.



OUR AWARDS & AFFILIATIONS

 **Best Workplace Amongst Emerging Enterprises** Awarded By
Great Indian Workplace Awards – 2018
Mumbai, India



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Best Emerging Technology Training Organization
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 **TOP 5 Big Data TRAINING INSTITUTES 2017** 



 **TOP 10 IoT TRAINING INSTITUTES PROMISING IN INDIA 2017** 



 Top 10 IoT Training Companies for the
Second consecutive year. 



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 Top 10 IoT Training Institutes – 2016




  Asian Training &
Leadership Award, Dubai



 **TOP 5 Emerging Technologies TRAINING COMPANIES** 



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Microsoft Power BI Market Outlook

- Gartner has recognized Microsoft Power BI as a leader for the 16th consecutive time in 2023 Gartner Magic Quadrant for Analytics & Business Intelligence platforms
- Power BI simplifies report generation and customization while putting a focus on print-ready and publication-ready sharing
- Power BI offers the latest and strongest security models through Microsoft Azure and its built-in cluster architecture
- Top companies like Walmart, T-Mobile, Bayer, etc. have been using Microsoft Power BI to turn their data into immediate impact across their teams globally.

Cognixia's Microsoft Power BI Data Analyst training & certification

This Power BI course discusses the different methods as well as best practices essential for effective modeling, visualizing, and analyzing data with Power BI. The course demonstrates how to access and process data from a range of data sources including both relational and non-relational data. The course also involves in-depth discussions on how to implement appropriate security standards & policies across the complete Microsoft Power BI spectrum including the datasets and groups. The course will also help learners understand how to manage & deploy reports as well as dashboards for sharing & content distribution.

Who should take this course?

This course is ideal for data professionals and business intelligence professionals keen to learn more about analyzing data and delivering accurate insights using Microsoft Power BI. It would also be highly beneficial for individuals whose work involves or have an interest in learning about visualizing data from data platform technologies that exist on the cloud as well as on-premises.

Prerequisites

To be eligible for this course and make the most of the concepts learned during the sessions, participants need to have

- Thorough understanding of core data concepts
- Knowledge of working with relational data in the cloud
- Knowledge of working with non-relational data in the cloud
- Knowledge of data analysis and visualization concepts

Program Structure

- 30 hours of live online instructor-led training
- Industry-experienced instructor
- 24x7 dedicated PoC support

DETAILED CURRICULUM : MODULES

Module 1: Get started with Microsoft data analytics

This module explores the different roles in the data space, outlines the important roles and responsibilities of a Data Analysts, and then explores the landscape of the Power BI portfolio.

- Data analytics and Microsoft
- Getting started with Power BI

After completing this module, students will be able to:

- 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: Getting Data in Power BI

This module explores identifying and retrieving data from various data sources. You will also learn the options for connectivity and data storage and understand the difference and performance implications of connecting directly to data vs. importing it.

- Data Analytics and Microsoft
- Optimize Performance
- Resolve Data Errors
- Lab: Preparing Data in Power BI Desktop
- Prepare Data

After completing this module, students will be able to:

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

Module 3: Cleaning, Transforming, and Loading Data in Power BI

This module teaches you the process of profiling and understanding the condition of the data. They will learn how to identify anomalies, look at the size and shape of their data, and perform the proper data cleaning and transforming steps to prepare the data for loading into the model.

- Shaping the Data
- Profiling the Data
- Enhance the data structure
- Lab: Loading Data in Power BI Desktop
- Loading Data

After completing this module, students will be able to:

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

Module 4: Design a Data Model in Power BI

This module teaches the fundamental concepts of designing and developing a data model for proper performance and scalability. This module will also help you understand and tackle many of the common data modeling issues, including relationships, security, and performance.

- Introduction to data modeling
- Working with tables
- Dimensions and Hierarchies
- Lab: Data Modeling in Power BI Desktop
- Create Model Relationships
- Configure Tables and Column Properties
- Create hierarchies

DETAILED CURRICULUM : MODULES

After completing this module, students will be able to:

- Understand the basics of data modeling
- Define relationships and their cardinality
- Implement Dimensions and Hierarchies

Module 5: Create Model Calculations using DAX in Power BI

This module introduces you to the world of DAX and its true power for enhancing a model. You will learn about aggregations and the concepts of Measures, calculated columns and tables, and Time Intelligence functions to solve calculation and data analysis problems.

- Introduction to DAX
- Real-time dashboards
- Advanced DAX
- Lab: Introduction to DAX in Power BI Desktop
- Create calculated tables
- Create calculated columns
- Create measures
- Lab: Advanced DAX in Power BI Desktop
- Use the CALCULATE () function to manipulate filter context
- Use Time Intelligence functions

After completing this module, students will be able to:

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

Module 6: Optimize Model Performance in Power BI

In this module you are introduced to steps, processes, concepts, and data modeling best practices necessary to optimize a data model for enterprise-level performance.

- Optimize the data model for performance
- Optimize DirectQuery Models

After completing this module, students will be able to:

- Understand the importance of variables
- Enhance the data model
- Optimize the storage model

Module 7: Create Reports in Power BI

This module introduces you to the fundamental concepts and principles of designing and building a report, including selecting the correct visuals, designing a page layout, and applying basic but critical functionality. The important topic of designing for accessibility is also covered.

- Design a report
- Enhance the report
- Lab: Enhancing reports with interaction and formatting in Power BI Desktop
- Create and configure Sync Slicers
- Create a drill through page
- Apply conditional formatting
- Create and use Bookmarks
- Lab: Designing a report in Power BI Desktop
- Design a report
- Configure visual fields and format properties

After completing this module, students will be able to:

- Design a report page layout
- Select and add effective visualizations
- Add basic report functionality
- Add report navigation and interactions

DETAILED CURRICULUM : MODULES

Module 8: Create Dashboards in Power BI

In this module you will learn how to tell a compelling story through the use of dashboards and the different navigation tools available to provide navigation. You will be introduced to features and functionality and how to enhance dashboards for usability and insights.

- Create a Dashboard
- Real-time Dashboards
- Enhance a Dashboard
- Lab: Creating a Dashboard in Power BI Service
- Create a Dashboard
- Pin visuals to a Dashboard
- Use Q&A to create a dashboard tile

After completing this module, students will be able to:

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

Module 9: Identify Patterns and Trends in Power BI

This module helps you apply additional features to enhance the report for analytical insights in the data, equipping you with the steps to use the report for actual data analysis. You will also perform advanced analytics using AI visuals on the report for even deeper and meaningful data insights.

- Advanced Analytics
- Data Insights through AI visuals
- Lab: Data Analysis in Power BI Desktop
- Create animated scatter charts
- Use the visual to forecast values

After completing this module, students will be able to:

- Use the Analyze feature
- Identify outliers in data
- Use the AI visuals
- Use the Advanced Analytics custom visual

Module 10: Create and Manage Workspaces in Power BI

This module will introduce you to Workspaces, including how to create and manage them. You will also learn how to share content, including reports and dashboards, and then learn how to distribute an App.

- Creating Workspaces
- Sharing and Managing Assets

After completing this module, students will be able to:

- Create and manage a workspace
- Understand workspace collaboration
- Monitor workspace usage and performance
- Distribute an App

Module 11: Manage Files and Datasets in Power BI

This module will introduce you to parameters and datasets. You will also learn how to manage datasets and parameters, build dynamic reports with parameters, and set dataset refresh options.

- Parameters
- Datasets

DETAILED CURRICULUM : MODULES

After completing this module, students will be able to:

- Manage datasets and parameters
- Build dynamic reports with parameters
- Schedule dataset refresh
- Troubleshoot gateway service connectivity

Module 12: Row-level Security in Power BI

This module will introduce you to row-level security, both static and dynamic methods, and how to implement.

- Security in Power BI
- Lab: Enforce Row-Level Security
- Configure many-to-many relationships
- Enforce row-level security

After completing this module, students will be able to:

- Implement row-level security using both the Static and Dynamic methods

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Microsoft Power BI Data Analyst



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