



AnalyticaEd

Analyse the world in a new way.



Power BI



MICROSOFT POWER BI CERTIFICATION PROGRAM

Courses we cover

- Power BI
- Power Automate
- Web Development
- Digital Marketing

Analyticaed.work@gmail.com

Contact- +91-9950740655

Program Curriculum

Module 1

Introduction to Power BI

- Introduction to Business Intelligence (BI)
- Introduction to Power BI
- Why Power BI
- Power BI Components
- Building blocks of Power BI
- Architecture of Power BI
- Introduction of Power BI Desktop
- Installation of Power BI Desktop

Module 2

CONNECT TO DIFFERENT DATA SOURCES

- Introduction of power query editor
- Data Sources in Power BI
- Modes of Connection
- Different types of connectors
- Connect to CSV files in Power BI Desktop
- Connect to Excel in Power BI Desktop
- Connect to SQL Server in Power BI Desktop
- Connect to Direct SQL Query in Power BI Desktop
- Connecting using different connection modes
- Advance editor

Module 3

DATA TRANSFORMATION

- Shaping data using Power Query Editor
- Formatting data
- Transformation of data
- Understanding of Data types
- Data profiling for data quality check
- Naming conventions & best practices to consider

- Identify and create appropriate keys for joins
- Working with Parameters
- Merge Query
- Append Query
- Group by of data (aggregation of data)
- Group by Tricks
- Applied steps (query settings)
- Duplicate & Reference tables
- Transpose of data
- Fill
- Pivot & Un-pivot of data
- Custom columns
- Conditional columns
- Replace data from the tables
- Split columns values
- Move columns & sorting of data
- Detect data type, count rows & reverse rows
- Promote rows as column headers
- M query

Module 4

DATA MODELLING & DAX

- Fact Table & Dimension Table
- Schemas
- Introduction of relationships
- Creating relationships
- Cardinality
- Cross filter direction
- Use of inactive relationships
- Introduction of DAX
- Why DAX is used
- DAX syntax
- DAX functions
- Context in DAX
- Calculated columns using DAX
- Measures using DAX
- Calculated tables using DAX
- Learning about table, information, logical, text, iterator
- Time intelligence functions (YTD, QTD, MTD)

Program Curriculum

- Cumulative values, calculated tables, and ranking and rank over groups
- Date and time functions
- Identify poorly performing measures, relationships, and visuals
- DAX advanced features

Module 5

DATA VISUALIZATION WITH ANALYTICS

- Deep dive into Power BI data visualization
- Understanding Power View and Power Map
- Data visualization techniques
- Page layout & Formatting
- Power BI Desktop visualization
- Formatting and customizing visuals
- Visualization interaction
- Custom visualization in Power BI
- Top-down and bottom-up analytics
- Drill down
- Drill through
- Page navigations
- Bookmarks
- Selection pane to show/hide visuals
- Comparing volume and value-based analytics
- Combination charts (dual axis charts)
- Filter pane
- Slicers
- Use of Hierarchies in drill down analysis
- Theme for corporate standards
- Power BI template for design reusability
- Mastering the best practices
- Performance analyzer in Power BI for monitoring performance of report
- Power BI Q&A (Natural Language Query visual)
- Sync slicers
- Tooltips & custom tooltips
- Tables & matrix
- Conditional formatting on visuals
- Waterfall chart, KPI, Donut chart, Scatter chart
- Geographical data visualization using Maps

Module 6

POWER BI SERVICE (Cloud)

- Introduction to Power BI Service
- Introduction of workspaces
- Dashboard
- Creating & Configuring Dashboards
- Dashboard theme
- Reports vs Dashboards
- Building workspace Apps
- Sharing reports & dashboards
- configure subscriptions and data alerts
- Paginated report

Module 7

POWER BI SETTINGS, ADMINISTRATION & DIRECT CONNECTIVITY

- Getting to understand Power BI Desktop settings
- Aggregating data from multiple data sources
- Power BI Service settings
- Power BI usage analysis
- Introduction of Data Gateway
- Installation & Configuration of data gateways
- Scheduling auto data refresh
- Managing groups, row-level security, datasets, reports, and dashboards
- Creating Data Flows
- Incremental data load in Power BI
- Power BI Licenses

Module 8

- Using Chat GPT with Power BI
- Understanding Problem Statements
- Basics of Power Automate