

Power BI Training

Complete Practical & Real-time Training Sessions

SQL School
Quality Training Assured

ISO Certified Training Institute

Microsoft Certified Partner

Training Highlights

- Complete Practical and Real-time Scenarios
- Session wise Material and Practice Labs
- Session wise Notes & Doubts Clarifications
- Certification Material & Resume Preparation
- Interview Preparation and Guidance
- Technical Support and Placements Assistance
- One Real-time Project and FAQs with Answers
- Mock Interview and Course Completion Certificate

What is Power BI?

Power BI is a suite of business analytics tools that deliver insights throughout your organization. Connect to hundreds of data sources, simplify data prep, and drive ad hoc analysis. Produce beautiful reports, and then publish them for your organization to consume on the web and across mobile devices. Everyone can create personalized dashboards with a unique, 360-degree view of their business. And scale across the enterprise, with governance and security built-in.

In our training course, we provide complete information on Power BI Architecture, Working, DAX, MDX and End User Report Access using Power BI including Mobile Reports, Google Analytics, YouTube and Microsoft One Drive Integration.

All Trainings Session Are Completely Practical & Real Time

Every session includes Study Material and Practice Material.

POWER BI LIVE Training - Course Curriculum

Module I: Power BI Basics, Visuals

<p>Chapter 1 : INTRODUCTION TO POWER BI</p> <ul style="list-style-type: none"> ✓ Power BI Introduction - Target Users ✓ Need for Big Data and BI Technologies ✓ Purpose of BI and Power BI Suite of Tools ✓ Power BI as a Self-Service BI, Scope of Usage ✓ Comparing Power BI with Microsoft BI (MSBI) ✓ Comparing Power BI with Tableau, QlickView ✓ Power BI as an End-to-End BI Suite Of Tools ✓ Microsoft Data Platform Technologies with BI ✓ Data Collaboration, Visualization and IOT ✓ Power BI with Reporting Services (SSRS) ✓ Power BI For Data Scientists and AI Scope ✓ Power BI For Data Analysts, Business Analysts ✓ Power BI Job Roles and Responsibilities ✓ Power BI Component : Overview, Lab Plan ✓ MCSA Examination for Power BI: 70-778 	<p>Chapter 2: ARCHITECTURE, INSTALLATION</p> <ul style="list-style-type: none"> ✓ Power BI Architecture - in Detail, Components ✓ Power BI - Integration Options in Real-time ✓ Types of Reports in Power BI - Interactive Analytical, Paginated and Mobile Reports ✓ Power BI Licensing Plans & Pricing Options ✓ Power BI Ecosystem Components - Purpose ✓ Need for Power BI Service (Cloud) and Azure ✓ Power BI Report Server and Report Builder ✓ Power BI Mobile Report Publisher Tool Usage ✓ Power BI with Excel - Excel Analyzer Tool ✓ Power BI Desktop & Excel Publisher Tools ✓ Power BI Desktop - Installation, Requirements ✓ Understanding Power BI Desktop Tool - usage ✓ Power BI Canvas, Visualizations and Filters ✓ Fields, Reports, Data, Relationship Screens ✓ Need for Power Query and DAX Expressions ✓ Various Visualizations in Power BI - Overview
<p>Chapter 3: POWER BI BASIC EXAMPLES</p> <ul style="list-style-type: none"> ✓ Using Power BI Desktop Tool - Options ✓ Report Visuals, Fields, Pages and Filters ✓ Report, Data and Relationship Options ✓ Working with Visualizations and PBI Canvas ✓ Working with Enter Data and Get Data Options ✓ Get Data from DAT Files, Basic Reports ✓ Enter Data from Excel Files, Basic Reports ✓ Concept & Use of PBIX and PBIT Files ✓ Creating PBIX Files and Re-Using Reports ✓ Creating PBIT Files & Data Import Options ✓ Designing Simple / Basics Reports in PBI ✓ Visual Interactions in Power BI - Options ✓ Spotlight Options with Visuals, Real-time Use ✓ Slicer Visual in Power BI and Data Filters ✓ Reusing Slicer across multiple Report Pages ✓ Visual Sync Property, two directional Filters 	<p>Chapter 4 : HIERARCHIES and FILTERS</p> <ul style="list-style-type: none"> ✓ Working with Hierarchies in Power BI ✓ Creating Hierarchies - Options and Usage ✓ Data Drill Options with Power BI Hierarchies ✓ Data Explore Options - Spotlight and Focus ✓ Expand, Expand All Down, Go to Next Level ✓ Drill Up, Drill Down and Parent Aggregations ✓ See Data, Export Data, See Records Options ✓ Include and Exclude with Multi-Field Values ✓ Filters and Real-time Usage with Power BI ✓ Export Options to CSV Files and Data Drills ✓ Using Report Filters, Page Filters in PBIX ✓ Using Drill-down Filters and Visual Filters ✓ Basic, Advanced, TOP N Filters - Usage ✓ Apply and Clear Options with Value Filters ✓ Filtering at Category Level, Summary Level ✓ Filtering Techniques in Power BI Visuals ✓ Usage of Filters in Real-world – Synopsys

Chapter 5 : BIG DATA ACCESS @ POWER BI

- ✓ Database Properties and Types of Databases
- ✓ OLTP and OLAP Databases with Power BI
- ✓ DWH and HTAP Databases with Power BI
- ✓ On-premise Database Access with Power BI
- ✓ Cloud Database Access with Power BI Visuals
- ✓ Import Option with Database - Advantages
- ✓ Direct Query Option in Database : Advantages
- ✓ Options with Small and Big Databases
- ✓ Accessing Azure SQL Database with Power BI
- ✓ Reports with Azure SQL DB Connections
- ✓ SQL Queries with Power BI Data Connections
- ✓ Limitations with Direct Query in PBI
- ✓ Query Storage Mode in Power BI Desktop
- ✓ Relation Detection in Power BI Desktop
- ✓ Relationship Management, Inactive Relations
- ✓ One - One, One - Many, Many - One Relations
- ✓ Defining Relations for Visual Interactions

Chapter 6 : Power BI Visual Properties - 1

- ✓ Power BI Visualizations and Types
- ✓ Fields, Formats and Analytics Options
- ✓ Table Visuals & Properties, Filters
- ✓ Data Bar and Data Scaling Options
- ✓ Divergent Colors and Data Labels
- ✓ Conditional Formatting, Grid Lines
- ✓ Matrix : Sub Totals, Grand Totals
- ✓ Drilldown Options : Row and Column
- ✓ Row Groups and Column Groups in Matrix
- ✓ Slicer Visual - Properties, Alignment
- ✓ Single Select and Show All Options
- ✓ Chart Reports - Types, Common Properties
- ✓ Axis, Legend, Value and Tooltip
- ✓ Stacked Bar Chart, Clustered Column Chart
- ✓ Stacked Bar Chart : Properties
- ✓ Stacked Column Chart : Properties
- ✓ Clustered Bar Chart : Properties
- ✓ Clustered Column Chart : Properties
- ✓ 100% Stacked Bar and Column Charts
- ✓ Data Labels and Legend Properties
- ✓ Comparing Bar Charts and Column Charts

Chapter 7 : Power BI Visual Properties - 2

- ✓ Line Chart, Area Chart Properties
- ✓ Stacked Area Chart - Properties
- ✓ Line and Stacked Column Chart
- ✓ Line and Clustered Column Chart
- ✓ Visual Fields, Shared Axis, Legend
- ✓ Column Series and Column Axis
- ✓ Join Types & Lines: Round, Bevel, Miter
- ✓ Shapes and Markers - Properties
- ✓ X Axis & Y Axis Properties, Plot Area
- ✓ Display Units, Data Colors, Shapes
- ✓ Series, Custom Series and Legends
- ✓ Ribbon Chart - real-time Use, Properties
- ✓ Match Series and Plot Area Options
- ✓ Waterfall Chart - Sentiment Colors
- ✓ Breakdown Count and Decrease / Increase
- ✓ Scatter Chart - Play Area and Axes
- ✓ Axis Values and Color Saturation, Legend
- ✓ Line and Donut Charts - Properties
- ✓ Inner Radius, Details and Value
- ✓ Data Point and Series Limitations

Chapter 8 : Power BI Visual Properties - 3

- ✓ Tree Map, Funnel and Gauge Reports
- ✓ Group and values in Tree Maps
- ✓ Min. Max Values and Goal Values
- ✓ Single Row Card and Multi Row Cards
- ✓ Non-Interactive Visuals @ Multi Row
- ✓ Callout Values and KPI Reports
- ✓ Indicator, Trend and Target Goals
- ✓ Map Reports and Filled Map Reports
- ✓ ArcGIS Maps and Real-time Usage. Options
- ✓ Using Buttons in Power BI Desktop
- ✓ Bookmarks in Power BI Desktop - Usage
- ✓ Using Bookmarks with Buttons, Actions
- ✓ Using Bookmarks for Visual Filters
- ✓ Using Bookmarks for Page Navigations
- ✓ Using Selection Pane with Bookmarks
- ✓ Power BI Buttons and Options

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Module II: ETL & Data Modeling

<p>Chapter 9 : Power Query & M Language - 1</p> <ul style="list-style-type: none"> ✓ Power Query [M Language] - Purpose ✓ Power Query Usage & Operation Types ✓ Power Query Architecture and Usage ✓ QUERY Concept, Properties, Validations ✓ Power Query for Data Mashup Operations ✓ Basic Data Types, Literals and Values ✓ Expressions and Primitives in M Language ✓ LIST : Syntax, Examples and Usage ✓ RECORD : Syntax, Examples and Usage ✓ TABLE : Syntax, Examples and Usage ✓ Power Query Connection Formats, Settings ✓ let, source & in statements in M Lang ✓ Power BI Canvas: Edits, Applied Steps ✓ Queries and Applied Steps, Edit Queries 	<p>Chapter 10 : Power Query & M Language - 2</p> <ul style="list-style-type: none"> ✓ Data Sources with Excel, File Formats ✓ Data Sources with Database Connections ✓ BLANK Data Sources Creation & Scope ✓ Creating LIST, RECORD, TABLE Queries ✓ Functions in Power Query and Usage ✓ Defining Functions and Invoke Options ✓ Mashup Operations in Power Query Editor ✓ Row Filters, Column Filters, Renames ✓ Promoting Headers and Query Settings ✓ MERGE Queries For Combining Queries ✓ Inner Join and Left/Right Outer Joins ✓ Left Anti Join, Right Anti Join, Full Join ✓ UNION All, Group By and Aggregations ✓ Close and Apply Options. Data Imports ✓ Binning with Groups and Query Formats ✓ Sub String Functions, Splits (Row, Column) ✓ Parsing XML and JSON Files. Formatting
<p>Chapter - 11: POWER QUERY & M LANG. - 3</p> <ul style="list-style-type: none"> ✓ Creating Parameters in Power Query ✓ Intrinsic & Query Parameters, Usage ✓ Parameter Data Types, Default Value Lists ✓ Static Lists, Dynamic Lists For Parameters ✓ Creating Parameters in Power Query Edits ✓ Creating Parameters in Data Set Queries ✓ Converting Columns to Lists in Power Query ✓ Reports with Range Values - Bookmarks ✓ Dynamic Dropdowns with PBIX Reports ✓ Parameters with PBIT Reports, Prompts ✓ Report Design with Dynamic WebPages ✓ Creating Lists and Tables in Power BI ✓ Data Conversions, to Text() Functions ✓ Multi Valued Parameters. Table Columns ✓ Dynamic Table Expressions and Functions ✓ Report Design with Structured Table Values 	<p>Chapter 12 : Power Query & M Language - 4</p> <ul style="list-style-type: none"> ✓ New Queries from Dataset Fields, Usage ✓ Removing Duplicate Rows and Columns ✓ Column Delimiters and Field Formatting ✓ Change Type and Transform Operations ✓ Replace Values & Errors, Transpose ✓ Group By Aggregations, Fill, Reverse Rows ✓ Format Options in M Language. Bookmarks ✓ Pivot and Unpivot Options in Power Query ✓ Data Type Conversions & Format Options ✓ Data Modeling Options with Power Query ✓ Modeling Operations - Custom Columns ✓ Query Transforms, Sort Direction, Statistics ✓ Enabling / Disabling Loads. To List Options ✓ Creating Parameters & Variables. Functions ✓ Date and Time Columns. String Functions ✓ Advanced Edit Options, Custom Queries ✓ Custom Functions in Power Query M Lang ✓ Grouping and Sub Groups with Queries
<p>Chapter 13 : DAX Functions & Usage - 1</p> <ul style="list-style-type: none"> ✓ DAX : Importance and Real-time Usage ✓ DAX as library of Functions, Operators ✓ Real-world usage of DAX with Power BI ✓ Real-world usage of Excel, MSBI SSAS 	<p>Chapter 14 : DAX Functions & Usage - 2</p> <ul style="list-style-type: none"> ✓ Quick Measures in DAX - Auto validations ✓ Power Pivot velocity & Vertipaq Store ✓ In-Memory Processing : DAX Performance ✓ Date and Time & Text Functions

<ul style="list-style-type: none"> ✓ DAX Architecture and Entities ✓ Formulation Rules for using DAX ✓ DAX Data Types and Working Options ✓ Syntax, Functions, Context Options ✓ Concept of Measures and Calculations ✓ ROW Context and Filter Context in DAX ✓ DAX Structures and Syntax Options ✓ DAX Functions - Types and Use ✓ Creating and Using Measures with DAX ✓ Creating and Using Columns with DAX ✓ Vertipaq Engine & Special Characters ✓ Operators in DAX - Real-time Usage ✓ Limitations of DAX Formulas 	<ul style="list-style-type: none"> ✓ Time Intelligence Functions in DAX ✓ Logical & Mathematical Functions ✓ Data Modeling with DAX. Creating Roles ✓ Currency Conversions, Field Formatting ✓ SUM and SUMX Functions: Differences ✓ CALCULATE(), CALCULATEX() Functions ✓ CALCULATETABLE Functions. VAR, VARP ✓ DATESMTD, DATESQTD, DATESYTD ✓ ENDOF(), FirstDay(), LastDay() ✓ SAMEPERIODLASTYEAR, STARTOF() ✓ Other DAX Functions and Examples ✓ DAX Expressions with Quick Measure ✓ DAX Usage for Row Level Security ✓ Creating Roles with Power BI Desktop ✓ DAX Filters and Multi Value Conditions ✓ Manage Roles and Membership Options ✓ VIEW AS ROLE. Information Functions
<p>Chapter 15 : DAX - 3 (DAX FUNCTIONS)</p> <ul style="list-style-type: none"> ✓ BLANK, CODE, CONCATENATE ✓ CONCATENATEX, FIND, FIXED ✓ FORMAT, LEFT, LEN ✓ LOWER, MID, REPLACE, REPT ✓ RIGHT, SEARCH, SUBSTITUTE ✓ TRIM, UNICHAR, UPPER, VALUE ✓ DATE, DATEVALUE, DAY ✓ EDATE, EOMONTH, NOW ✓ HOUR, MINUTE, MONTH ✓ SECOND, TIME, TIMEVALUE ✓ TODAY, WEEKDAY, WEEKNUM ✓ YEAR YEARFRAC ✓ EARLIEST, FILTER, FILTERS ✓ HASONEFILTER HASONVALUE ✓ ISFILTERED ISFILTERED RELATED ✓ RELATEDTABLE USERRELATIONSHIP ✓ VALUES ✓ ALLEXCEPT ALLNOBLANKROW ✓ ALLSELECTED ✓ CALCULATE CALCULATETABLE ✓ DISTINCT, EARLIER 	<p>Chapter 16 : DAX - 4</p> <ul style="list-style-type: none"> ✓ CLOSINGBALANCEMONTH, ✓ CLOSINGBALANCEQUARTER ✓ CLOSINGBALANCEYEAR, ✓ DATEADD, DATESBETWEEN ✓ DATESMTD, DATESQTD, DATESYTD ✓ ENDOFMONTH, ENDOFQUARTER , ✓ ENDOFYEAR , FIRSDATE, ✓ FIRSTNONBLANK , LASTDATE , ✓ LASTNONBLANK, NEXTDAY, NEXTMONTH, ✓ NEXTQUARTER, NEXTYEAR, ✓ OPENINGBALANCEMONTH , ✓ OPENINGBALANCEQUARTER, ✓ OPENINGBALANCEYEAR, ✓ PARALLELPERIOD, PREVIOUSDAY, ✓ PREVIOUSMONTH, PREVIOUSQUARTER, ✓ PREVIOUSYEAR, SAMEPERIODLASTYEAR, ✓ STARTOFMONTH, STARTOFQUARTER , ✓ STARTOFYEAR , TOTALMTD, TOTALQTD, ✓ TOTALYTD, ALL, FILTER

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Module III: Power BI Service (Cloud)

<p>Chapter 17 : Power BI Service (Cloud) - 1</p> <ul style="list-style-type: none"> ✓ Power BI Cloud & Power BI Workspace ✓ App Workspace Creation in Real-time ✓ Publish Reports from Power BI Desktop ✓ Reports and Datasets in Power BI Cloud ✓ Pin Visuals and Pin LIVE Report Pages ✓ Dashboard Creation and Tiles, Media ✓ Images, Web Content, Videos, Q & A ✓ Mobile View, Web View, QR Codes, Shares ✓ Enabling Interactive Visuals. Embed Codes ✓ Report Shares and Dashboard Shares ✓ App Publish Options and App Updates ✓ Power BI Report Edits in Cloud, Visuals ✓ Download PBIX Reports from Cloud ✓ Sharepoint Integration, PPTX and Excel 	<p>Chapter 18 : Power BI Service (Cloud) - 2</p> <ul style="list-style-type: none"> ✓ Dashboard Properties and Security ✓ Report properties and Security ✓ Dataset properties and Security ✓ Report Insights, Related Items & Metrics ✓ Quick Insights. Publishing App Workspace ✓ Power BI LIVE Report Edits, Downloads ✓ Content Packs : Creation and Use ✓ Organizational and Service Level ✓ Content Packs from Azure Marketplace ✓ Gateway Clusters - Installation ✓ Personal and Enterprise Gateways ✓ NT SERVICE\PBIEgwSERVICE Account ✓ Dataset Refresh Options and Schedules ✓ Azure Data bus Integration, ODG Logs
<p>Chapter 19 : Excel with Power BI</p> <ul style="list-style-type: none"> ✓ Using Excel with Power BI Reports ✓ Using Excel Analyzer in Power BI ✓ Using Excel Publisher in Cloud ✓ Creating Datasets with Excel, Office 365 ✓ Excel Uploads & Cloud Imports, Office 365 ✓ Cell Selection and PINS in Power BI ✓ Excel Online Service - Edits and Pins ✓ Excel ODC Connections and Real-time Use ✓ Excel Power Pivot and Power BI Cloud ✓ Excel Drilldowns and Drill thru Reports ✓ Create Key Performance : KPI Reports ✓ Excel for Big Data Analysis, Reporting ✓ Worksheets and Dashboards with Excel ✓ Power Pivot Reports in with Excel ✓ Power View Report Options in Excel 	<p>Chapter 20: GATEWAYS n REST APIs</p> <ul style="list-style-type: none"> ✓ REST APIs with Power BI Cloud Service ✓ Streaming Datasets Creation in Power BI ✓ API : Usage. Sub Keys and Channels ✓ Push and Pubnub Datasets in Power BI ✓ Azure Stream for Real-time Data Reports ✓ Real-time Data Tracking Visuals (Interactive) ✓ Power BI Database for Streaming Datasets ✓ Need for Spark Connections with Power BI ✓ Using Streaming Datasets in Tiles in Cloud ✓ Integrate Power BI Dashboards with RESTAPI ✓ Power BI Data Gateway - Architecture ✓ Gateway Installation, Configuration ✓ PBIEgw Service, ODG, Privacy Levels ✓ Using Gateways in Power BI Cloud ✓ SSO - Single Sign On Security Options ✓ Kerberos Authentication, Refresh Modes ✓ Incremental Loads, Gateway Versions
<p>Chapter 21: POWER BI REPORT SERVER</p> <ul style="list-style-type: none"> ✓ Power BI Admin Console and Settings ✓ Installing Power BI Report Server ✓ Report Server Configuration Manager ✓ Configuring Power BI Report Server ✓ Report Server Database TempDB Database ✓ Web service URL, Web portal URL - Usage ✓ Report Builder Installation & Usage 	<p>Chapter 22 : POWER BI WITH R</p> <ul style="list-style-type: none"> ✓ Introduction to R Language, Usage ✓ R Scripts and R Visuals - Real-time Use ✓ MRO : Microsoft R Open - Installation ✓ MKL : Math Kernel Library Usage Options ✓ R Language Compiler from RMAN ✓ R Language License from Intel MKL ✓ Enabling R Script in Power BI

<ul style="list-style-type: none"> ✓ SQL Server Data Tools (SSDT) Tool Usage ✓ Designing Paginated Reports (RDL), Tests ✓ Deploy to Power BI Report Server, Settings ✓ Data Source Connections, Report Options ✓ Register Power BI Report Server to Cloud ✓ Tenant IDs Generation and Real-time Usage ✓ Integrating Power BI Intranet & Cloud ✓ Creating Hybrid Cloud with Power BI ✓ Publish RDL Reports to Power BI Cloud ✓ Paginated Reports Vs Interactive Reports 	<ul style="list-style-type: none"> ✓ Installing R Studio for R Scripts ✓ Install FORECAST Packages in R Studio ✓ Using R Script Editor Window in R Studio ✓ Writing R Scripts in Power BI. Executions ✓ Using R Visual in Power BI Desktop ✓ "game" Console in Power BI Report Fields ✓ Console, Date and Search Options with R ✓ Power BI Limitations with R Visuals ✓ Duplicate Data Removal with R Visuals ✓ Power BI with R for Data Scientists
<p>Chapter 22 : POWER BI WITH MSBI</p> <ul style="list-style-type: none"> ✓ Using MSBIDatabases in Power BI ✓ OLAP Cube Reports and Access ✓ MDX Scripts with Power BI ✓ MDX Filters with Power BI ✓ DAX Filters with Power BI ✓ Cube Slicer Options, Dashboards ✓ Pinning MDX & DAX Data ✓ Working with Hybrid Cloud ✓ Using Report Server Config ✓ Integrating Report Server DBs ✓ Interactive Versus Paginated Reports ✓ SQL_AS Components in Power BI ✓ Data Analysis Options ✓ Using DWH for Reports Design ✓ Using Dimensions for Report Design ✓ Comparing Tableau with Power BI ✓ Comparing SSRS with Power BI 	<p>Chapter 23 : Power BI Real-time Project :</p> <ul style="list-style-type: none"> ✓ This Power BI Training includes ONE Real-time Project Implementation on LIVE, 24 x 7 Climate Control Datasets with Cloud and REST API Integration. This project involves Microsoft One Drive and Google Drive Integration, High Level End User Collaborations with 360 degree Dashboards. Also includes Power BI Report Server Paginated Reports and Data Gateways with Azure Data Sync Services and ODG Logs used in Real-world.

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For Free Demo / Further Clarifications, please reach us.

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