Power BI Training Curriculum

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"A comprehensive training on how to import, transform & visualise data with Power BI, with practical exercises & case study."

Course Objectives:

- Learn to create POWERFUL reports and dashboards with Microsoft Power BI with a few clicks of the mouse.
- Gain valuable INSIGHT and INTELLIGENCE from your business and marketing data in a FRACTION of the time of traditional spreadsheets.
- PUBLISH reports and dashboards on the Internet and view using laptops, tablets or smartphones in minutes.
- Learn to create Data Models and use the DAX Formula language to develop POWERFUL calculations.
- Easily create a wide range of GRAPHS and VISUALISATIONS using drag and drop technologies.
- Use the Power BI Q & A feature to easily ask QUESTIONS of your data and provide new insight.
- Prepare for the Power BI global certification exam and get recognition.
- Learn to apply for Power BI jobs at different platforms and get hired.

Course Description:

Power BI stands tall for users with its significant features like minimal license cost, easy to use operations and high-end product performance. Industry insights specify significant growth in Power BI users and thus provides a greater number of jobs to the next generations. Microsoft being one among top software providers, with a vision to make this power BI to lead the business intelligence sector started updating with new features to attract more clients in the market.

Power BI is one of the powerful tools available in the market with a share of 12% under business intelligence products. Power BI offers various job roles like Business intelligence architect, business analyst, data analyst and Business intelligence developer resulting in a great number of jobs around the world. In 2018, India witnessed the need for data scientists has shot up by 400%. By this, we can anticipate the future of data scientists and analysts. Act wise and enrol now.

If you are new to Power BI or want to fill in some gaps in your knowledge, this is the course for you. We've focused on providing you with the fundamentals you need to work with Power BI effectively! Don't sit through days of boring training to understand how Power BI works! This course will get you up to speed and working in half the time, giving you the crucial foundation to start you on the journey to becoming a Power BI expert.

All the Best!

Course Content:

Module 1: Introduction to Power BI

- Overview of BI concepts
- Why we need BI?
- Introduction to SSBI
- SSBI Tools
- Why Power BI?
- What is Power BI?
- Building Blocks of Power BI
- Getting started with Power BI Desktop
- Get Power BI Tools
- Introduction to Tools and Terminology
- Dashboard in Minutes
- Refreshing Power BI Service Data
- Interacting with your Dashboards
- Sharing Dashboards and Reports

Module 2: Power BI Desktop

- Power BI Desktop
- Extracting data from various sources
- Workspaces in Power BI
- Data Transformation
- Measures and Calculated Columns
- Query Editor

Module 3: Modelling with Power BI

- Introduction to Modelling
- Modelling Data
- Manage Data Relationship
- Optimize Data Models
- Cardinality and Cross Filtering
- Default Summarization & Sort by
- Creating Calculated Columns
- Creating Measures & Quick Measures

Module 4: Data Analysis Expressions (DAX)

- What is DAX?
- Data Types in DAX
- Calculation Types
- Syntax, Functions, Context Options
- DAX Functions

- - Date and Time
  - Time Intelligence
  - Information
  - Logical
  - Mathematical
  - Statistical
  - Text and Aggregate
- Measures in DAX
- ROW Context and Filter Context in DAX
- Operators in DAX - Real-time Usage
- Quick Measures in DAX - Auto validations
- PowerPivot xVelocity & Vertipaq Store
- In-Memory Processing: DAX Performance

Module 5: Modelling with Power BI

- Introduction to Modelling
- Optimize Data Models
- Setup and Manage Relationships
- Cardinality and Cross Filtering
- Default Summarization & Sort by
- Creating Calculated Columns
- Creating Measures & Quick Measures

Module 6: Power BI Desktop Visualisations

- How to use Visual in Power BI?
- What Are Custom Visuals?
- Creating Visualisations and Colour Formatting
- Setting Sort Order
- Scatter & Bubble Charts & Play Axis
- Tooltips and Slicers, Timeline Slicers & Sync Slicers
- Cross Filtering and Highlighting
- Visual, Page and Report Level Filters
- Drill Down/Up
- Hierarchies and Reference/Constant Lines
- Tables, Matrices & Conditional Formatting
- KPI's, Cards & Gauges
- Map Visualizations
- Custom Visuals
- Managing and Arranging
- Drill through and Custom Report Themes
- Grouping and Binning and Selection Pane, Bookmarks & Buttons
- Data Binding and Power BI Report Server

Module 7: Introduction to Power BI Q&A and Data Insights

- Why Dashboard? and Dashboard vs Reports
- Creating Dashboards
- Configuring a Dashboard: Dashboard Tiles, Pinning Tiles
- Power BI Q&A
- Quick Insights in Power BI
- Power BI embedded and REST API

Module 8: Direct Connectivity

- Custom Data Gateways
- Exploring live connections to data with Power BI
- Connecting directly to SQL Azure, HD Spark, and SQL Server Analysis Services/ My SQL
- Introduction to Power BI Development API
- Excel with Power BI: Connect Excel to Power BI, Power BI Publisher for Excel
- Content packs
- Update content packs

Module 9: BI and Azure ML Integrating Power

- Extracting data out of Azure SQL using R
- Using R, call the Azure ML web service and send it the unscored data
- Writing the output of the Azure ML model back into SQL
- read scored data into Power BI using R
- Publishing the Power BI file to the Power BI service
- Scheduling a refresh of the data using the Personal Gateway

Module 10: Publishing and Sharing

- Introduction and Sharing Options Overview
- Publish from Power BI Desktop and Publish to Web
- Share Dashboard with Power BI Service
- Workspaces and Apps (Power BI Pro) and Content Packs (Power BI Pro)
- Print or Save as PDF and Row Level Security (Power BI Pro)
- Export Data from a Visualization and Publishing for Mobile Apps
- Export to PowerPoint and Sharing Options Summary

Module 11: Refreshing Datasets

- Understanding Data Refresh
- Personal Gateway (Power BI Pro and 64-bit Windows)
- Replacing a Dataset and Troubleshooting Refreshing

Module 12: Placement Guide

- What is an Interview?
- Tips to clear an Interview
- Common Interview questions and answers
- Power BI Interview Questions and Answers
- Resume Building Guide
- Attempt for PowerBI Global Certification Exam
- Start applying for Jobs