



Get Certified

# NetTech India



## Advance Certification Course in **MICROSOFT POWER BI**

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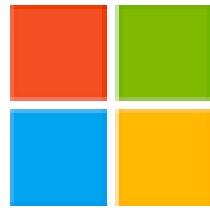
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# CERTIFICATIONS OPTIONS AVAILABLE



**JAINxJAIN**  
THE LEARNING HUB DEEMED-TO-BE UNIVERSITY



Microsoft



**NetTech India**



# ABOUT US

**NetTech India Training Institute** offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **NetTech India**. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.



**25%**  
Theory

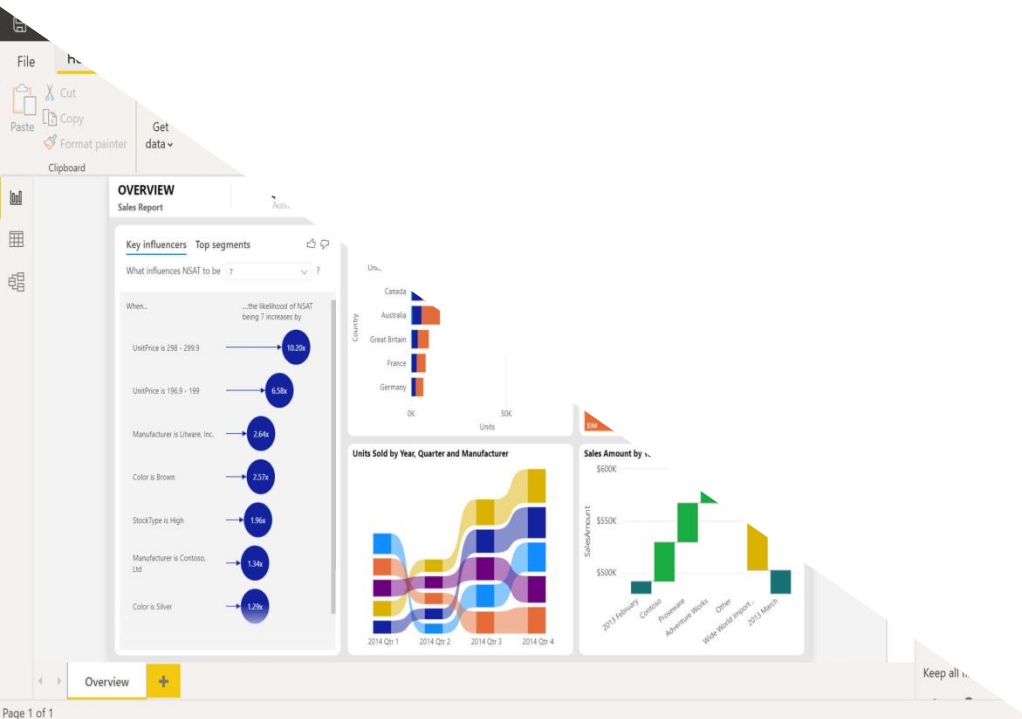


**75%**  
Practicals

# **ABOUT**

# **MICROSOFT POWER BI**

Power BI is an interactive data visualization software product developed by Microsoft with a primary focus on business intelligence.



# **WHY NETTECH INDIA ?**

- Free Complete Placement Training
- Career Growth - Higher Pay & Position
- Encourages Professional Development
- Enhances Professional Credibility.
- Internship Assistance
- Free Demo Class
- Certified Course
- Excellent Training with Qualified Trainer
- 50+ Case Studies
- 10+ Projects



# **COURSE CONTENT**

## **Power BI Complete Introduction:**

- Power BI Introduction
- Data Visualization, Reporting
- Business Intelligence(BI), Traditional BI, Self-Serviced BI
- Cloud Based BI, On Premise BI
- Power BI Products
- Power BI Desktop (Power Query, Power Pivot, Power View)
- Flow of Work in Power BI Desktop
- Power BI Report Server, Power BI Service, Power BI Mobile
- Flow of Work in Power BI / Power BI Architecture
- A Brief History of Power BI

# **PBI Desktop Installation, PBI Desktop & Service Overview**

- Power BI Desktop Installation
- Building Blocks of Power BI
- Datasets, Visualizations, Reports, Dashboards, Tiles
- Power BI Desktop User Interface
- Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas
- Overview of Power Query / Query Editor - Extract, Transform & Load Data
- Connecting to Data Sources, Establish connection to the Excel source
- Importing Data into Power BI or Query Editor
- Transforming the Data using Power Query

- Model the Data using Power Pivot – Relationship View
- Creating New Measures and New Columns using DAX – Data View
- Visualizing the Data using Power View and Power Maps – Report View
- Saving and Publishing the Visuals or Reports
- Logon to Power BI Service
- View the Reports in PBI Service and Share the reports



# Module 1: Power Query


## Introduction to Power Query – Extract, Transform & Load

- Data Transformation, Benefits of Data Transformation
- Shape or Transform Data using Power Query
- Overview of Power Query / Query Editor, Query Editor User Interface
- The Ribbon (Home, Transform, Add Column, View Tabs)
- The Queries Pane, The Data View / Results Pane, The Query Settings Pane, Formula Bar
- Advanced Editor – Complete ETL Code
- Saving Your Work – Applying ETL Changes – Loading into Power Pivot Model
- Power Query Conceptually

## **Data types and Filters in Power Query**

- Data types, Changing the Data type of a Column
- Filters in Power Query
- Auto Filter / Basic Filtering
- Filter a Column using Text Filters
- Filter a Column using Number Filters
- Filter a Column using Date Filters
- Filter Multiple Columns

## **Inbuilt Column Transformations**

- Remove Columns / Remove Other Columns
- Name / Rename a Column  Reorder Columns or Sort Columns
- Add Column / Custom Column
- Split Columns
- Merge Columns
- PIVOT, UNPIVOT Columns
- Transpose Columns

## In built Row Transformations

- Header Row or Use First Row as Headers
- Keep Top Rows, Keep Bottom Rows
- Keep Range of Rows
- Keep Duplicates, Keep Errors
- Remove Top Rows, Remove Bottom Rows, Remove Alternative Rows
- Remove Duplicates, Remove Blank Rows, Remove Errors
- Group Rows / Group By

## Combine Queries (Append Queries & Merge Queries) Append Queries / Union Queries

- Append Queries
- Append Queries as New
- Append 2 or more files individually with different queries
- Appending multiple files of same type from a folder using single query
- Query Options
- Copy Query, Paste Query
- Delete Query, Rename Query
- Enable Load, Include in report Refresh
- Duplicate Query, Reference Query
- Move to Group, Move Up, Move Down

## Module 2: Power Pivot

### Power BI Data Modeling – Relationship View

- Data Modeling Introduction
- Relationship, Need of Relationship
- Relationship Types / Cardinality in General
- One-to-One, One-to-Many (or Many-to-One), Many-to-Many
- AutoDetect the relationship, Create a new relationship, Edit existing relationships
- Make Relationship Active or Inactive
- Delete a relationship
- Cross filter direction (Single, Both), Assume Referential Integrity

## Enhancing the Data Model – DAX

- What is DAX, Calculated Column, Measures
- DAX Table and Column Name Syntax
- Creating Calculated Columns, Creating Measures
- Implicit vs. Explicit Measures
- Calculated Columns vs. Measures
- DAX Syntax & Operators
- DAX Operators
- Types of Operators : Arithmetic Operators, Comparison Operators, Text Concatenation Operator, Logical Operators

## **DAX Functions Categories**

- Date and Time Functions
- Logical Functions
- Text Functions
- Math & Statistical Functions
- Filter Functions
- Time Intelligence Functions

## **DAX Date & Time Functions**

- YEAR, MONTH, DAY
- WEEKDAY, WEEKNUM
- FORMAT (Text Function) ? Month Name, Weekday Name
- DATE, TODAY, NOW
- HOUR, MINUTE, SECOND, TIME
- DATEDIFF, CALENDAR
- Creating Date Dimension Table

## **DAX Text Functions**

- LEN, CONCATENATE (&)
- LEFT, RIGHT, MID
- UPPER, LOWER
- TRIM, SUBSTITUTE, BLANK

## **DAX Logical Functions**

- IF
- TRUE, FALSE
- NOT, OR, IN, AND
- IFERROR
- SWITCH



## DAX Math and Statistical Functions

- INT
- ROUND, ROUNDUP, ROUNDDOWN
- DIVIDE
- EVEN, ODD
- POWER, SIGN
- SQRT, FACT
- SUM, SUMX
- MIN, MINX
- MAX, MAXX
- COUNT, COUNTX
- AVERAGE, AVERAGEX
- COUNTROWS, COUNTBLANK

## DAX Filter Functions

- CALCULATE
- ALL
- RELATED

## DAX Time Intelligence Functions


- Time Intelligence Introduction
- TOTALMTD, TOTALQTD, TOTALYTD
- PREVIOUSDAY, PREVIOUSMONTH, PREVIOUSQUARTER, PREVIOUSYEAR
- NEXTDAY, NEXTMONTH, NEXTQUARTER, NEXTYEAR
- SAMEPERIODLASTYEAR
- YOY Growth
- MOM Growth

## **Module 3: Power View**

### **Report View / Power View**

- Report View User Interface
- Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas
- Visual Interactions
- Interaction Type (Filter, Highlight, None)
- Visual Interactions Default Behavior, Changing the Interaction

### **Filters in Power View**

- Filter Types
-  Visual Level Filters, Page Level Filters, Report Level Filters, Drill Through Filters
- Filter Sub Types
- Basic Filtering, Advanced Filtering, Top N, Relative Date Filtering
- Numeric field filters, Text field filters, Date and Time field Filters

## Grouping, Binning & Sorting

- Grouping and Binning Introduction
- Using grouping, Creating Groups on Text Columns
- Using binning, Creating Bins on Number Column and Date Columns
- Sorting Data in Visuals
- Changing the Sort Column, Changing the Sort Order
- Sort using column that is not used in the Visualization

## **Visualizing Trend Data**

- Line and Area Charts
- Create and Format Line Chart, Area Chart, Stacked Area Chart
- Combo Charts
- Create and Format Line and Stacked Column Chart, Line and Clustered Column Chart
- Create and Format Ribbon Chart, Waterfall Chart, Funnel Chart

## **Visualizing KPI Data**

- Create and Format Gauge Visual, KPI Visual
- Create and Format Card Visualization, Multi Row Card

## Module 4: Power BI Service

### Power BI Service Introduction

- Power BI Service Introduction, Power BI Cloud Architecture
- Creating Power BI Service Account, SIGN IN to Power BI Service Account
- Publishing Reports to the Power BI service, Import / Getting the Report to PBI Service
- My Workspace / App Workspaces Tabs
- DATASETS, WORKBOOKS, REPORTS, DASHBOARDS
- Working with Datasets, Creating Reports in Cloud using Published Datasets
- Power BI Datasets Live Connection using Desktop
- Working with Workbooks, working with Reports, Sharing Reports

## **Dashboards Development**

- ✓ Creating Dashboards
- ✓ Pin Visuals and Pin LIVE Report Pages to Dashboard
- ✓ Advantages of Dashboards
- ✓ Interacting with Dashboards
- ✓ Adding Tiles to Dashboards
- ✓ Web Content, Image, Text Box, Video
- ✓ Formatting Dashboard
- ✓ Sharing Dashboard

## Data Gateways

- Introduction to Data Gateways
- How Data Gateways work
- Connect to an on premise Data Source by using a Data Gateway
- Download Data Gateway
- Installing a Data Gateway
- Types of Gateways
- On-premises Data Gateway, On-premises Data Gateway (personal mode)
- Manage Data Gateway
- Add and Remove Administrators
- Add Data Source, Add or Remove Users to a Data Source
- Refresh On Premise Data
- Configuring Automatic Refresh using Schedules



## **Collaboration in Power BI using App Workspace**

- Introduction to App Workspaces
- Create an App Workspace
- Add Members to App Workspace to Collaborate
- App Workspace Access
- Admin, Member, Contributor

## **Row Level Security in Power BI**

- Introduction to Row Level Security
- Row Level Security (RLS) with DAX
- Manage Roles, Creating Roles, Testing Roles
- Adding Members to Roles in Power BI Service
- Dynamic Row Level Security
- Creating Users Table and Adding to the Model
- Capturing users using Username () or UserPrincipalName ()
- DAX Functions

## **ADD ON**

- Real-time Project Explanation
- Resume Preparation
- Interview Questions Discussions

# **WHO CAN LEARN ?**

- Anyone who wants to build a career in Data Science.
- Anyone who wish to gain knowledge about Programming.
- Students who are currently in college or university



# **CAREER OPPORTUNITIES**

- Power BI Consultants
- Power BI Data Analyst
- Power BI Developer
- Power BI Software Engineer
- Power BI Analyst
- Senior Software Engineer
- Senior Business Intelligence (BI) Analyst
- Power BI Business Analyst (IT)

**And Many More...**



# OUR RECRUITERS

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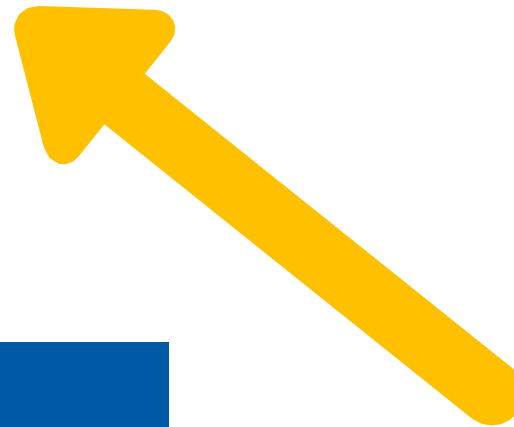
*and Many More....*

# **PROCESS FOR SUCCESS**

**GET PLACED**

**GET TRAINED**

**ENROLL**



# **FACILITIES OFFERED**

- Practical Training on Live Projects
- Complete Placement Assistance
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training





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# NetTech India



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