

# V-SMART

## SPOKEN ENGLISH & COMPUTER INSTITUTE

### POWER BI SYLLABUS

The Power BI Course Curriculum is designed by Microsoft Power BI Certified Experts. Our Power BI Course Syllabus covers basic to advanced level concepts that consist of Report Designing, Visual Sync, Grouping, Hierarchies, Filters, Bookmarks, Azure, Modeling, DAX Functions - Level 1, DAX Functions - Level 2, Power BI Cloud, Excel & RLS, Report Server, RDL and more. Get Practical Exposure on Microsoft Power BI for Data Analytics and Visualization with Our Updated Power BI Training Course Content

#### 1. Business Intelligence (BI) Concepts

- Introduction & importance of Business Intelligence
- Tools and Technologies in Business Intelligence area

#### 2. Clearing the confusion

- 3 ways to use Power BI (PBI Desktop, PIB Service, PBI Mobile app)
- Roles in Data (Business Analyst, Data Analyst, Power Bi Developer)

#### 3. About Microsoft Power BI

- Power BI Architecture
- Power BI introduction and Its components
- Power BI over Excel

#### 4. Power BI Desktop - An Introduction

- PBI Flow – Most Important
- Download PBI Desktop & Interface tour
- Understanding Key backstage options (file tab)
- Understanding Case Study 1 and Role play
- Power BI Practice Files

#### 5. Connecting Power BI with Different Data sources

- Get Data from Flat Files (CSV, Text & Excel Files)
- Get Data from OData Feed
- Connect to local folder

#### 6. Data Transformation through Power Query

- Power Query & Power Query Editor Introduction
- Difference between Transform and load
- Merge, Add and remove columns
- Sorting in Power Query

- Merge and Append queries
- Transform table tools: grouping, transpose, reverse rows, count rows, use as header
- Transform Column tools: detecting & changing data type, Fill, Unpivot etc.
- Text Column tools: Splitting, replace values, extracting, merging, formatting and parsing columns
- Number Column tools: Statistical, standard, rounding and information
- Building a complete Calendar Table
- Conditional, Custom, Invoke Custom, Index and Duplicate Column
- Flashfill in Power Query (Columns from example)
- Understanding different view options
- Connect to multiple files in a folder

### **7. Data Modelling in Power BI**

- How to build relationship and relationship cardinality
- Understanding filter flow & Cross Filter direction
- Building entire model
- Snowflake & Star schema
- Add Related tables

### **8. Understanding Data Analysis Expressions (DAX)**

- Understanding DAX and its Types
- Difference between calculated columns and measures

### **9. Basic DAX functions - (Calculated Columns)**

- Logical DAX
- Another example of conditional column
- Understanding SWITCH function
- Understanding Year and Today function, Playing with Text functions (Left and Search)

### **10. Relational Functions**

- Bringing Data from any Related table using RELATED Function
- Opposite of related function - RELATEDTABLE Function

### **11. Understanding Contexts in Power BI**

- Filter & Row Context - A must watch for any Power BI user

### **12. Understanding Measures**

- Understanding Measures Practically
- Creating Measure table

- Counting Values using Count Function

### **13. Most Common DAX - CALCULATE & FILTER**

- Condition Based Calculation - Calculate Function
- Building Calculated Table using Filter Function
- Understanding Variable with Calculate, Filter and Sameperiodlastyear function

### **14. Date & Time DAX**

- **Month, Qtr., Year to Date calculation**
- **Previous Day, Month, Qtr., Year calculation**
- **Periodic Calculation**

### **15. Building Report**

- Adding non-visualization object
- Inserting Basic charts and understanding format tab
- Creating Comparison visuals (Doughnut Chart)
- Creating Bar chart for Top 5 Customers
- Plotting Values on a Map Visual
- Understanding Matrix visual along with Conditional Formatting
- Comparing Actual vs. Target using Gauge Chart
- Using Slicers and understanding its impact on the report's

### **16. Publish the Report to Cloud**

- Publish the report to Power BI service

### **17. Introduction to PBI Service**

- Understanding Power BI Service
- Creating New PBI Service account
- PBI Interface tour

### **18. Gateways, Scheduled Refresh & Incremental Refresh**

- Understanding Gateways and its types
- Enabling scheduled refresh through Personal gateway
- Incremental Refresh (Theory)
- Incremental Refresh (Practical)

