PBI015: ***Microsoft Power BI – Up & Running with Power BI for Desktop***

Duration: 3 Days; Instructor-led

WORKSHOP DESCRIPTION
This course provides students with the knowledge and skills to analyse data with Power Business Intelligence.

LEARNING OBJECTIVES
- Build Professional-Quality Business Intelligence reports from the ground up
- Blend and transform raw data into beautiful interactive dashboards
- Design and implement the same BI Tools used by professional analysts and data scientists
- Showcase your skills with two full-scale course projects (with step-by-step solutions)
- Understand the business intelligence workflow from end-to-end

SKILLS GAINED
This course is intended for Information workers who have an understanding of Microsoft Office Excel

AUDIENCE PROFILE
The primary audience for this course is professionals who need to analyse data utilizing Power BI. The secondary audiences for this course are technically proficient business users.

PREREQUISITES
In addition to their professional experience, students who attend this training should already have the following technical knowledge:
- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with Microsoft Office applications – particularly Excel.

SYSTEM REQUIREMENTS
- Microsoft Power Bi for Desktop (Free Download)
- This course is designed for PC/Windows users (Currently not available for MAC)
- Experience with Excel Power Query, Power Pivot & DAX is a plus but not required

COURSE OUTLINE

Module 1: Introduction to Self-Service BI Solutions
- Introduction to Business Intelligence
- Introduction to Data Analysis
- Introduction to Data Visualization
- Overview of Self-Service BI
- Considerations for Self-Service BI
- Microsoft Tools for Self-Service BI

Module 2: Introducing Power BI
- Power BI
- The Power BI Service

Module 3: Power BI Data
- Using Excel as a Data Source for Power BI
- Using PDF as a Data Source for Power BI
- Using Text / CSV file as a Data Source for Power BI
- Using Folder as a Data Source for Power BI
- Using Web as a Data Source for Power BI
- The Power BI Data Model
- Using Databases as a Data Source for Power BI
- The Power BI Service

Module 4: Connect & Transform the Raw Data
- Introduction to Power Query Editor
- Types of Power BI Data Connectors
- Basic Table Transformations
- Power BI Desktop Queries
- Raw Data Housekeeping
- Shaping Data
- Combining Data
- Text, Number, Date Tools
- Index and Conditional Columns
- Grouping and Aggregating Data
- Connecting to Folders
- Defining Hierarchies & Categories
- Query Editing and Power BI Best Practices

Module 5: Build a Relational Data Model
- Introduction to Database Normalization
- Data ("Fact") Tables Vs. Lookup ("Dimension") Tables
- Creating Power BI Table Relationships
- Active vs. Inactive Relationships
- Relationship Cardinality
- Connecting Multiple Data Tables
- Filtering & Cross Filtering
- Data Modelling & Relationships
- Basic Calculations and Measure

Module 6: Interactive Data Reports & Visualizations
- Intro to the Power BI Report View
- Adding Basic Charts to Power Bi reports
- Formatting and Filtering Options
- Matrix Visuals
- Slicers & Timelines
- Cards & KPIs
- Power BI Map Visuals
- Tree maps, Lines Areas, Gauges
- Editing Report Interactions
- Adding Drill through Filter
- Linking to Report Bookmarks
- Managing & Viewing Roles
- Power BI Data Visualization Best Practises

Module 7: Direct Connectivity
- Cloud Data
- Connecting to Analysis Services

Module 8: Development with Power BI
- The Power BI API
- Custom Visuals

Module 9: Publishing Power BI
- Publishing Power BI to PowerBI.Com
- Intro to Power BI Mobile Apps