<u>Deccansoft Software Services</u>

(A Microsoft Learning Partner)

Power BI

Module 1: Introduction to Self-Service BI Solutions In this module students will be introduced to the key concepts in business intelligence, data analysis, and data visualization. In addition they will learn the rationale for self-service BI, considerations for using self-service BI, and how Microsoft products can be used to implement a self-service BI solution. **Lessons**

- ❖ Introduction to business intelligence
- ❖ Introduction to data analysis
- ❖ Introduction to data visualization
- ❖ Overview of self-service BI
- ❖ Considerations of self-service BI
- ❖ Microsoft tools for self-service BI

Lab : Exploring an enterprise BI solution After completing this module, you will be able to:

• Describe key concepts in business intelligence

• Describe key concepts in data analysis

• Describe key concepts in data visualization

• Describe the rationale for self-service BI

• Describe considerations for self-service BI

• Describe how Microsoft products can be used to implement a self-service BI solution

Module 2: Introducing Power BI This module introduces Power BI. **Lessons**

- Power BI
- The Power BI service
- Power BI mobile apps

Lab : Cresting a Power BI dashboard After completing this module, you will be able to:

• Describe Power BI

- Describe the Power BI Service

- Implement Tenant Management

- Describe Power BI mobile apps

- Create a simple dashboard

Module 3: Power BI Data This module describes Power BI data sources. **Lessons**

- Using Excel as a Power BI data source

- Using databases as a Power BI data source

- The Power BI service

Lab : Import data into Power BI After completing this module, you will be able to:

- Use Excel as a Power BI data source

- Use databases as a Power BI data source and describe the R language

- Configure the Power BI Service

Module 4: Shaping and Combining Data This module describes how to shape and combine data.

Lessons

- Power BI desktop queries

- Shaping data

- Combining data

Lab : Shaping and combining data After completing this module, you will be able to:

- Create Power BI Desktop queries

- Shape data

- Combine data**Module**

 5: Modelling Data This module describes how to model data in Power BI. **Lessons**

- Relationships

- DAX queries

- Calculations and measures

Lab : Modelling data After completing this module, you will be able to:

• Configure the Power BI Service

• Create Relationships

• Write simple DAX queries

• Create calculations and measures

Module 6: Interactive Data Visualizations This module describes Power BI visualizations. **Lessons**

- Creating Power BI reports
- Managing a Power BI solution

Lab : Creating a Power BI report After completing this module, you will be able to:

• Use Power BI Desktop to create interactive data visualizations

• Describe the management of a Power BI solution

Prerequisite:

This course requires that you meet the following prerequisites:

• Basic knowledge of the Microsoft Windows operating system and its core functionality.

• Basic knowledge of data warehouse schema topology (including star and snowflake schemas).

• Some exposure to basic programming concepts (such as looping and branching).

• An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.

• Familiarity with Microsoft Office applications – particularly Excel.

At Course Completion

- ❖ After completing this course, students will be able to:
- ❖ Describe key features of a self-service BI solution
- ❖ Describe Power BI and its data sources
- ❖ Model, shape, and combine data
- ❖ Describe Power BI data visualizations

OverView:

Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights. Whether your data is a simple Excel spreadsheet, or a collection of cloud-based and on-premises hybrid data warehouses, **Power BI** lets you easily connect to your data sources, visualize (or discover) what's important, and share that with anyone or everyone you want.

Power BI can be simple and fast – capable of creating quick insights from an Excel spreadsheet or a local database. But **Power BI** is also robust and enterprise-grade, ready for extensive modeling and real-time analytics, as well as custom development. So it can be your personal report and visualization tool, and can also serve as the analytics and decision engine behind group projects, divisions, or entire corporations.