



## Analyzing Data with Power BI

10989B 2 Days

Instructor-led, Hands on

### Course Information

This two-day instructor-led course provides students with the knowledge and skills analyze data with Power BI.

The primary audience for this course is BI professionals who need to analyze data utilizing Power BI.

The secondary audiences for this course are technically proficient business users.

### At Course Completion

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.

### 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.
- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design.

These prerequisites can be achieved by attending courses

- 20761 – Querying Data with Transact-SQL
- 20767 - Implementing a SQL Server Data Warehouse

### Course Outline

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



## **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 : Creating 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**

**Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>**



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

**Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>**



## **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