



# Analyzing Data with Power BI (MOC 10989)

Microsoft Official Curriculum

**Course Length:** 2 days

**Course Delivery:** Traditional Classroom • Online Live

## Overview

This 2-day instructor-led course provides students with the knowledge and skills analyze data with Power BI.

## Audience profile

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.

## Prerequisites for Analyzing Data with Power BI (10989):

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.

These prerequisites can be achieved by attending courses

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

## At course completion of this Analyzing Data with Power BI (10989):

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



# Course Outline

## 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



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### **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



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## 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



To register or for more information call our office **(208) 898-9036** or email [register@leapfoxlearning.com](mailto:register@leapfoxlearning.com)



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