

FS-5010A Analyzing Data with PowerBI (Duration 2Days)



What will you learn?

The focus of this 2day instructor-led course is on empowering users to consume data and visualize them through PowerBI by extracting, shaping, formatting and transforming the raw data from various data sources. This course helps you prepare for the **Exam 70-778 & 70-779**.

Who is the Audience?

The primary audience for this course is Business Analysts who need to fulfil Data Analyst or Data Scientist roles to create enterprise reporting and dashboarding with Microsoft PowerBI solutions.

Primary responsibilities will include:

- Providing intelligence and interactive reports, dashboards.
- Mashup data to come out with clean, integrate and consistent data.

What are the Prerequisites?

Before attending this course, students must have:

- Basic knowledge about relational databases and data warehouse.
- Basic knowledge of querying data using Transact-SQL.
- Basic experience working with Microsoft Excel.
- Experience working with Microsoft PowerBI Desktop App.

What are the Course Objectives?

After completing this course, students will be able to:

- Model data in PowerPivot by Relationships and Measures.
- Extract, shape and combine data from various of data sources.
- Visualize the clean data via proper charts.
- Configure data gateway and dataset refresh schedule for auto refresh scenarios.

What are the Course Outlines?

Module 1: Introduction to Business Intelligence and PowerBI

This module introduces the Business Intelligence ecosystem, trends and self-service BI with PowerBI.

Lessons:

- Introduction to Business Intelligence.
- Self-Server BI and Microsoft Tools.
- Introduction to PowerBI.

Labs:

- Discussion: Challenges of your current BI solution.
- Explore Microsoft PowerBI.
- Create a PowerBI Report and Dashboard.
- Signup Microsoft PowerBI Service.

Module 2: Data Gathering in PowerBI

This module describes how to extract, shape and combine data from various data sources via PowerQuery component.

Lessons:

- Introduction to Power Query.
- Extract data from Excel Data Source.
- Extract data from SQL Server Database.
- Extract data from CSV and Web.
- Shaping and Combining Data.
- Configure PowerBI Service.

Labs:

- Import Excel and CSV Files into PowerBI.
- Transform and Format Customer Data.
- Combine the Sales Data.

Module 3: Data Modeling in PowerBI

This module describes how to model data, create relationship and use of some DAX functions in PowerPivot component.

Lessons:

- Introduction to Power Pivot.
- Model Relationships.
- Introduction to DAX Queries.
- Calculations and Measures.

Labs:

- Create Customer and Sales Relationships.
- Create Calculated Column as Net Profit.
- Sales Profit Measure.

Module 4: Data Visualization in PowerBI

This module describes how to visualize the modeled, shaped and clean data as dashboard or report in Power View component.

Lessons:

- Introduction to Power View.
- Creating PowerBI Reports.
- Upload PowerBI Reports on PowerBI Service.
- Create PowerBI Dashboard.
- Monitor Report & Dashboard Usage.
- Configure PowerBI Data Gateway.

Labs:

- Create PowerBI Report and Dashboard.
- Configure the Data Gateway.
- Configure the Dataset Refresh Schedule.

About Trainer:



Hamid is SQL Server Data BI Platform Expert with more than 10 years' of professional experience, He is holding Microsoft Certified Master: SQL Server 2008, Microsoft Certified Solutions Master: Charter-Data Platform, Microsoft Data Platform MVP Award and CIW Database Design Specialist Certifications. Being a consultant allows him to work directly with customers to help solve questions regarding database issues for SQL Server and PowerBI. He had trained more than 200 students from Banking, Manufacturing, Insurance and Technology industries in well-known training centers in Malaysia.

