

**24 HORAS**

## INTRODUCTION

The main purpose of the course is to give students a good understanding of data analysis with Power BI. The course includes creating visualizations, the Power BI Service, and the Power BI Mobile App.

## AUDIENCE

The course will likely be attended by SQL Server report creators who are interested in alternative methods of presenting data.

## AT COURSE COMPLETION

After completing this course, students will be able to:

- Perform Power BI desktop data transformation.
- Describe Power BI desktop modelling.
- Create a Power BI desktop visualization.
- Implement the Power BI service.
- Describe how to connect to Excel data.
- Describe how to collaborate with Power BI data.
- Connect directly to data stores.
- Describe the Power BI developer API.
- Describe the Power BI mobile app.

## PREREQUISITES

This course requires that you meet the following prerequisites:

- Excellent knowledge of relational databases and reporting.
- Some basic knowledge of data warehouse schema topology (including star and snowflake schemas).
- Some exposure to basic programming constructs (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.

## 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

- Using Excel 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: Shaping and Combining Data

- Power BI desktop queries
- Shaping data
- Combining data

### Module 5: Modeling data

- Relationships
- DAX queries
- Calculations and measures

### Module 6: Interactive Data Visualizations

- Creating Power BI reports
- Managing a Power BI solution

### Module 7: Direct Connectivity

- Cloud data
- Connecting to analysis services

### Module 8: The Developer API

- The developer API
- Custom visuals

### Module 9: Power BI mobile app

- The Power BI mobile app
- Using the Power BI mobile app
- Power BI embedded