

## Power BI Certification Training Course Content

Course Duration - 45-50 Hrs., 6-8 Weeks

### Course Information

#### Batch Options

Weekday Batch  
Mon - Fri - 1.5 Hr./Day

#### About the Trainer

Industry Expert Trainer with 15+ Years  
Real Time Work Experience at Top US  
Based Product and Consulting Firms

#### Contact Us

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### Introduction To Power BI Training

Microsoft Power BI is letting companies do more with less using an end-to-end BI platform to create a single source of truth, uncover more powerful insights, and translate them into impact.

### What you'll learn

- Introduction to Power BI
- Guide you through Power BI end-to-end build process
- How to connect with data sources, import data, and author reports using Power BI Desktop
- Publish the reports to the Power BI service and create dashboards
- Share to business users so that they can consume the dashboards through the web and their mobile devices
- To prepare students for Power BI Certification Exams

## Course Content

### Module 1: Discover data analysis

- Introduction
- Overview of data analysis
- Roles in data
- Tasks of a data analyst
- Summary

### Module 2: Building Blocks of Power BI

- Introduction
- Use Power BI
- Building blocks of Power BI
- Use the Power BI service
- Summary

### Module 3: Get data in Power BI

- Identify and connect to a data source
- Get data from a relational database, like Microsoft SQL Server
- Get data from a file, like Microsoft Excel
- Get data from applications
- Get data from Azure Analysis Services
- Select a storage mode
- Fix performance issues
- Resolve data import errors

## Module 4: Clean, transform, and load data in Power BI

- Resolve inconsistencies, unexpected or null values, and data quality issues.
- Apply user-friendly value replacements.
- Profile data so you can learn more about a specific column before using it.
- Evaluate and transform column data types.
- Apply data shape transformations to table structures.
- Combine queries.
- Apply user-friendly naming conventions to columns and queries.
- Edit M code in the Advanced Editor

## Module 5: Design a data model in Power BI

- Create common date tables
- Configure many-to-many relationships
- Resolve circular relationships
- Design star schemas

## Module 6: DAX in Power BI

- Introduction to creating measures using DAX in Power BI
- Build quick measures.
- Create calculated columns.
- Use DAX to build measures.
- Discover how context affects DAX measures.
- Use the CALCULATE function to manipulate filters.
- Implement time intelligence by using DAX.

## Module 7: Performance optimization in Power BI

- Optimize a model for performance in Power BI
- Review the performance of measures, relationships, and visuals.
- Use variables to improve performance and troubleshooting.
- Improve performance by reducing cardinality levels.
- Optimize DirectQuery models with table level storage.
- Create and manage aggregations.

## Module 8: Build Visuals in Power BI

- Add visualization items to reports.
- Choose an effective visualization.
- Format and configure visualizations.
- Import a custom visual.
- Add an R or Python visual

## Module 9: Create Data Driven Story - Part 1

- Design a report layout.
- Add buttons, bookmarks, and selections.
- Design report navigation.
- Use basic interactions.
- Use advanced interactions and drill through.
- Configure conditional formatting.

## Module 10: Create Data Driven Story - Part 2

- Apply slicing, filtering, and sorting.
- Publish and export reports.
- Comment on reports.
- Use Performance analyzer to tune reports.
- Optimize reports for mobile use.

## Module 11: Create dashboards in Power BI

- Introduction to dashboards
- Configure data alerts
- Explore data by asking questions
- Add a dashboard theme
- Pin a live report page to a dashboard
- Configure a real-time dashboard
- Configure data classification
- Set mobile view

## Module 12: Power BI Analytics - Part 1

- Explore statistical summary.
- Identify outliers with Power BI visuals.
- Group and bin data for analysis.
- Apply clustering techniques.

## Module 13: Power BI Analytics - Part 2

- Conduct time series analysis.
- Use the Analyse feature.
- Use advanced analytics custom visuals.
- Review Quick insights.
- Apply AI Insights.

## Module 14: AI visuals in Power BI

- Introduction to AI visuals in Power BI
- Use the Q&A visual.
- Find important factors with the Key influencers visual.
- Use the Decomposition Tree visual to break down a measure.

## Module 15: Power BI Workspaces - Part 1

- Introduction to Power BI Workspaces
- Create and Manage Power BI Workspaces
- Distribute a report or dashboard.

## Module 16: Power BI Workspaces - Part 2

- Monitor usage and performance.
- Recommend a development life cycle strategy.
- Troubleshoot data by viewing its lineage.
- Configure data protection

## Module 17: Manage datasets in Power BI - Part 1

- Create dynamic reports with parameters.
- Create what-if parameters.
- Use a Power BI gateway to connect to on-premises data sources.
- Configure a scheduled refresh for a dataset.

## Module 18: Manage datasets in Power BI - Part 2

- Configure incremental refresh settings.
- Manage and promote datasets.
- Troubleshoot service connectivity.
- Boost performance with query caching (Premium).

## Module 19: Implement row-level security

- Introduction to row-level security
- Configure row-level security by using a static method.
- Configure row-level security by using a dynamic method.

## \*\*\*\*\* Power BI Real Time Project Reports \*\*\*\*\*

## Module 20: Real Time Project Report 1, 2

- Introduction to Realtime Project Reports 1, 2
- Build Reports 1, 2 for Realtime scenarios
- Test the reports and debug the if required

## Module 21: Real Time Project Report 1, 2

- Introduction to Realtime Project Reports 1, 2
- Build Reports 1, 2 for Realtime scenarios
- Test the reports and debug the if required

## Module 22: Real Time Project Report 3, 4

- Introduction to Realtime Project Reports 3, 4
- Build Reports 3, 4 for Realtime scenarios
- Test the reports and debug the if required

## Module 23: Real Time Project Report 5, 6

- Introduction to Realtime Project Reports 5, 6
- Build Reports 5, 6 for Realtime scenarios
- Test the reports and debug the if required

## Module 24: Real Time Project Report 7, 8

- Introduction to Realtime Project Reports 7, 8
- Build Reports 7, 8 for Realtime scenarios
- Test the reports and debug the if required

## Module 25: Real Time Project Report 9, 10

- Introduction to Realtime Project Reports 9, 10
- Build Reports 9, 10 for Realtime scenarios
- Test the reports and debug the if required



## **Module 26: Real Time Project Report 11, 12**

- Introduction to Realtime Project Reports 11, 12
- Build Reports 11, 12 for Realtime scenarios
- Test the reports and debug the if required

## **Module 27: Real Time Project Report 13, 14**

- Introduction to Realtime Project Reports 13, 14
- Build Reports 13, 14 for Realtime scenarios
- Test the reports and debug the if required

## **Module 28: Real Time Project Report 15 + Course Revision**

- Introduction to Realtime Project Report 15
- Build Report 15 for Realtime scenario
- Course Revision

## **Module 29: Power BI Data Analyst Associate Certification Exam Prep**

- Explain various Power BI Certification Options
- Discuss 50+ Important Power BI Data Analyst Associate Certification Questions
- Practice Power BI Data Analyst Associate Certification questions

## **Module 30: Resume Preparation, Interview and Job Assistance**

- Explain certification options available in Power BI
- Provide tips on how to prepare for Certification
- Help with Resume Preparation as Power BI Data Analyst/Developer
- Discuss common interview questions in Power BI