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Mastering Power BI

From Fundamentals to Exam Excellence in 4 days

FA-0314 · 4 days

Data & Analytics

Introduction

In today's data-driven world, the ability to analyze and visualize data effectively is a vital skill for organizations seeking to make informed decisions. Microsoft Power BI has emerged as one of the most powerful tools for transforming raw data into insightful and interactive dashboards.

This four-day intensive course is designed to take you from Power BI basics to advanced functionalities, aligned with the PL-300 (Microsoft Power BI Data Analyst) certification exam. Under the guidance of an industry veteran with over 30 years of experience, you'll not only learn to create impactful reports but also gain practical knowledge that meets real-world demands.

The final day of the course will be dedicated to exam preparation, featuring practice exams and exam dumps to ensure you're fully equipped to pass the certification on your first attempt.

Learning outcomes

By the end of this course, participants will be able to:

- Understand the fundamentals of Power BI, including data loading, transformation, and modeling.
- Create compelling visualizations and interactive reports.
- Implement advanced features such as DAX (Data Analysis Expressions) and Power Query.
- Share and publish Power BI reports and dashboards effectively.
- Prepare for and successfully pass the PL-300 certification exam using practice tests and exam dumps.

Prerequisites

- Basic understanding of data analysis concepts.
- Familiarity with Microsoft Excel, especially functions and formulas.
- Basic knowledge of relational databases (optional, but beneficial).

Training outline

1. Introduction to Power BI

- Overview of Business Intelligence and Power BI
- Understanding the Power BI Ecosystem: Power BI Desktop, Power BI Service, Power BI Mobile
- Installing and Setting Up Power BI Desktop

2. Data Loading and Transformation

- Connecting to Data Sources: Excel, SQL Server, Web Data, etc.

  Introduction to Power Query Editor
  - Data Cleaning: Handling Missing Values, Removing Duplicates
  - Data Transformation: Merging, Appending, and Aggregating Data
  - Column and Table Operations: Splitting Columns, Creating Custom Columns
  - Using the Query Editor for ETL Processes

3. Data Modeling in Power BI

- Understanding Data Models: Tables, Relationships, and Keys

  Introduction to DAX (Data Analysis Expressions)
  - Calculated Columns and Measures
  - Basic DAX Functions: SUM, AVERAGE, COUNT, etc.
  - Logical Functions: IF, SWITCH
  - Time Intelligence Functions
- Creating and Managing Relationships between Tables
- Implementing Hierarchies in Data Models

4. Creating and Customizing Visualizations

Introduction to Power BI Visualizations

    - Charts: Bar, Line, Pie, Combo, and Gauge Charts
    - Maps: Geo Maps, Filled Maps
    - Tables and Matrix Visuals
    - Cards, KPIs, and Multi-Row Cards
- Customizing Visuals: Formatting, Color Schemes, and Data Labels
- Creating Drillthroughs and Drilldowns
- Implementing Conditional Formatting
- Designing Interactive Reports with Slicers and Filters
- Introduction to Power BI Custom Visuals

5. Advanced Power BI Features

- Advanced DAX Functions: CALCULATE, FILTER, ALL
- Using Variables in DAX

  Introduction to Power BI Service
    - Publishing Reports to Power BI Service
    - Understanding Workspaces and Apps
    - Sharing Reports and Dashboards
    - Collaborating with Power BI Service: Commenting and Annotations
- Row-Level Security (RLS) Implementation
- Power BI Mobile: Designing for Mobile Devices

6. Optimizing and Deploying Power BI Reports

- Report Performance Optimization Techniques
- Scheduling Data Refreshes in Power BI
- Implementing Incremental Data Loads
- Introduction to Power BI Paginated Reports

7. PL-300 Certification Exam Preparation (Day 4)

- Overview of PL-300 Exam Structure and Objectives

  Practice Exam Questions and Scenarios
    - Understanding the Types of Questions: Case Studies, Drag and Drop, Multiple Choice
    - Time Management Strategies for the Exam

  Exam Dumps and Practice Tests
    - Working through Exam Dumps

    - Analyzing Common Pitfalls and Mistakes
    - Reviewing Correct Answers and Explanations
- Final Tips and Tricks for Passing the PL-300 Exam
- Mock Exam to Simulate Real Exam Conditions

This course ensures that participants are well-equipped to harness the full potential of Power BI for business intelligence tasks, while also preparing them to excel in the PL-300 certification exam.

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