

PL-300T00 - Design and manage analytics solutions using Power BI

Overview

Course Duration: 3 Days

About This Course

This course covers the various methods and best practices that are in line with business and technical requirements for modeling, visualizing, and analyzing data with Power BI. The course will show how to access and process data from a range of data sources including both relational and non-relational sources. Finally, this course will also discuss how to manage and deploy reports and dashboards for sharing and content distribution.

Audience Profile

The audience for this course is data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted at those individuals who develop reports that visualize data from the data platform technologies that exist both in the cloud and on premises.

Course Outline

Module 1: Get started with Microsoft data analytics

Explore the role of a data analyst and how Power BI tools transform data into impactful reports and dashboards that support trusted, data-driven decisions across the business.

- Explore the analytics process that turns data into insights
- Get started building with Power BI
- Introduction to end-to-end analytics using Microsoft Fabric
- Get started with Copilot in Power BI

Module 2: Prepare data for analysis with Power BI

You'll learn how to use Power Query to extract data from different data sources, choose a storage mode, and connectivity type. You'll also learn to profile, clean, and load data into Power BI before you model your data.

- Get data in Power BI
- Clean, transform, and load data in Power BI
- Choose a Power BI model framework

Module 3: Model data with Power BI

Data modeling configures and shapes your prepared data to design a semantic model with the necessary relationships and calculations using Data Analysis Expressions (DAX). This process ensures accurate analysis and sets you up to create clear, impactful Power BI reports.

- Configure a semantic model
- Write DAX formulas for semantic models
- Create DAX calculations in semantic models
- Modify DAX filter context in semantic models
- Use DAX time intelligence functions in semantic models
- Create visual calculations in Power BI Desktop

Module 4: Design effective reports in Power BI

Use data visualization and storytelling techniques to create insightful, dynamic Power BI reports that engage users, highlight key findings, and help inform decisions based on data.

- Scope report design requirements
- Design Power BI reports
- Enhance Power BI report designs for the user experience
- Perform analytics in Power BI

Module 5: Manage and secure Power BI

Ensure content is accessible and distributed effectively in Power BI to foster collaboration and informed decision-making. Protect sensitive information with robust security, building trust across your organization.

- Manage workspaces in Power BI service
- Manage semantic models in Power BI
- Choose a content distribution method
- Create dashboards in Power BI
- Secure data access in Power BI

Prerequisites

Before you start this learning path, you should be familiar with the Power BI Desktop application. You should also have a basic understanding of data analysis concepts and terminology, such as tables, relationships, and calculations.