Microsoft Partner

Gold Communications
Gold Project and Portfolio Management
Silver Application Integration
Silver Small and Midmarket Cloud Solutions
Microsoft

PL-300
Microsoft Power BI Data Analyst

In diesem Kurs werden die verschiedenen Methoden Best Practices erläutert, die den geschäftlichen und technischen Anforderungen für die Modellierung, Visualisierung und Analyse von Daten mit Power BI entsprechen. Der Kurs zeigt, wie auf Daten aus einer Reihe von Datenquellen zugegriffen wird und wie diese verarbeitet werden, einschließlich relationaler und nicht relationaler Quellen. Darüber hinaus wird in diesem Kurs auch erläutert, wie Sie Berichte und Dashboards für die Freigabe und Verteilung von Inhalten verwalten und bereitstellen.

Kursinhalt
- Get Started with Microsoft Data Analytics
- Prepare Data in Power BI
- Clean, Transform, and Load Data in Power BI
- Design a Data Model in Power BI
- Create Model Calculations using DAX in Power BI
- Optimize Model Performance in Power BI
- Create Reports in Power BI
- Create Dashboards in Power BI
- Enhance reports for usability and storytelling in Power BI
- Perform Advanced Analytics in Power BI
- Manage Datasets in Power BI
- Create and Manage Workspaces in Power BI

E-Book Die originalen Microsoft-Kursunterlagen werden Ihnen online zur Verfügung gestellt.

Zielgruppe
Die Zielgruppe für diesen Kurs sind Datenprofis und Business Intelligence-Experten, die lernen möchten, wie man akkurate Datenanalysen mit Power BI drchführen kann. Dieser Kurs richtet sich auch an Personen, die Berichte entwickeln, die Daten aus Datenplattformtechnologien visualisieren, die sowohl in der Cloud als auch lokal vorhanden sind.

Voraussetzungen
Erfolgreiche Data Analysts benötigen für diese Rolle Erfahrung im Arbeiten mit Daten in der Cloud.

Dies gilt insbesondere in folgenden Fällen:

- Verständnis der wichtigsten Datenbankkonzepte
- Kenntnisse zur Arbeit mit relationalen Daten in der Cloud
- Kenntnisse zur Arbeit mit nicht relationalen Daten in der Cloud
- Kenntnisse zu Datenanalyse- und Visualisierungskonzepten

Sie können die Voraussetzungen erfüllen und einen besseren Einblick in die Arbeit mit Daten in Azure erlangen, indem Sie Microsoft Azure Data Fundamentals abschließen, bevor Sie an diesem Kurs teil nehmen.

Stand 13.05.2025

Dieser Kurs im Web
Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.experteach.de/go/**ML30**

Vormerkung
Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine
Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert
Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training		Preise zzgl. MwSt.
Termine in Deutschland	**3 Tage**	**€ 1.795,-**
Online Training	**3 Tage**	**€ 1.795,-**
Termin/Kursort		Kurssprache Deutsch

Termin	Ort	Termin	Ort
02.06.-04.06.25	ON Online	03.11.-05.11.25	HY Hamburg
04.08.-06.08.25	HY Frankfurt	03.11.-05.11.25	HY Online
04.08.-06.08.25	HY Online	01.12.-03.12.25	HY Frankfurt
01.09.-03.09.25	HY Düsseldorf	01.12.-03.12.25	HY Online
01.09.-03.09.25	HY Online		

PL-300

ExperTeach

Inhaltsverzeichnis
PL-300 – Microsoft Power BI Data Analyst

Module 1: Get Started with Microsoft Data Analytics

This module explores the different roles in the data space, outlines the important roles and responsibilities of a Data Analysts, and then explores the landscape of the Power BI portfolio.
Lessons
Data Analytics and Microsoft
Getting Started with Power BI

Lab : Getting Started in Power BI Desktop
Getting Started

After completing this module, students will be able to:
Explore the different roles in data
Identify the tasks that are performed by a data analyst
Describe the Power BI landscape of products and services
Use the Power BI service

Module 2: Prepare Data in Power BI

This module explores identifying and retrieving data from various data sources. You will also learn the options for connectivity and data storage and understand the difference and performance implications of connecting directly to data vs. importing it.
Lessons
Get data from various data sources

Lab : Preparing Data in Power BI Desktop
Prepare Data

After completing this module, students will be able to:
Identify and retrieve data from different data sources
Understand the connection methods and their performance implications
Use Microsoft Dataverse
Connect to a data flow

Module 3: Clean, Transform, and Load Data in Power BI

This module teaches you the process of profiling and understanding the condition of the data. They will learn how to identify anomalies, look at the size and shape of their data, and perform the proper data cleaning and transforming steps to prepare the data for loading into the model.
Lessons
Data shaping
Enhance the data structure
Data Profiling

Lab : Transforming and Loading Data in Power BI Desktop
Loading Data

After completing this module, students will be able to:
Apply data shape transformations
Enhance the structure of the data
Profile and examine the data

Module 4: Design a Data Model in Power BI

This module teaches the fundamental concepts of designing and developing a data model for proper performance and scalability. This module will also help you understand and tackle many of the common data modeling issues, including relationships, security, and performance.
Lessons
Introduction to data modeling
Working with tables
Dimensions and Hierarchies

Lab : Data Modeling in Power BI Desktop
Create Model Relationships
Configure Tables
Review the model interface
Create Quick Measures

Lab : Advanced Data Modeling in Power BI Desktop
Configure many-to-many relationships
Enforce row-level security

After completing this module, students will be able to:
Understand the basics of data modeling
Define relationships and their cardinality

Implement Dimensions and Hierarchies
Create histograms and rankings

Module 5: Create Model Calculations using DAX in Power BI

This module introduces you to the world of DAX and its true power for enhancing a model. You will learn about aggregations and the concepts of Measures, calculated columns and tables, and Time Intelligence functions to solve calculation and data analysis problems.
Lessons
Introduction to DAX
DAX context
Advanced DAX

Lab : Advanced DAX in Power BI Desktop
Use the CALCULATE() function to manipulate filter context
Use Time Intelligence functions

Lab : Introduction to DAX in Power BI Desktop
Create calculated tables
Create calculated columns
Create measures

After completing this module, students will be able to:
Understand DAX
Use DAX for simple formulas and expressions
Create calculated tables and measures
Build simple measures
Work with Time Intelligence and Key Performance Indicators

6: Optimize Model Performance in Power BI

In this module you are introduced to steps, processes, concepts, and data modeling best practices necessary to optimize a data model for enterprise-level performance.
Lessons
Optimze the model for performance
Optimize DirectQuery Models
Create and manage Aggregations

After completing this module, students will be able to:
Understand the importance of variables
Enhance the data model
Optimize the storage model
Implement aggregations

Module 7: Create Reports in Power BI

This module introduces you to the fundamental concepts and principles of designing and building a report, including selecting the correct visuals, designing a page layout, and applying basic but critical functionality. The important topic of designing for accessibility is also covered.
Lessons
Design a report
Enhance the report

Lab : Designing a report in Power BI Desktop
Create a live connection in Power BI Desktop
Design a report
Configure visual fields and format properties

Lab : Enhancing reports with interaction and formatting in Power BI Desktop
Create and configure Sync Slicers
Create a drillthrough page
Apply conditional formatting
Create and use Bookmarks

After completing this module, students will be able to:
Design a report page layout
Select and add effective visualizations
Add basic report functionality
Add report navigation and interactions
Improve report performance
Design for accessibility

Module 8: Create Dashboards in Power BI

In this module you will learn how to tell a compelling story through the use of dashboards and the different navigation tools available to provide navigation. You will be introduced to features and functionality and how to enhance dashboards for usability and insights.

Lessons
Create a Dashboard
Real-time Dashboards
Enhance a Dashboard

Lab : Creating a Dashboard in Power BI Service
Create a Dashboard
Pin visuals to a Dashboard
Configure a Dashboard tile alert
Use Q&A to create a dashboard tile

After completing this module, students will be able to:
Create a Dashboard
Understand real-time Dashboards
Enhance Dashboard usability

Module 9: Enhance reports for usability and storytelling in Power BI

This module will teach you about paginated reports, including what they are how they fit into Power BI. You will then learn how to build and publish a report.
Lessons
Paginated report overview
Create Paginated reports

Lab : Creating a Paginated report in Power BI Desktop
Use Power BI Report Builder
Design a multi-page report layout
Define a data source
Define a dataset
Create a report parameter
Export a report to PDF

After completing this module, students will be able to:
Explain paginated reports
Create a paginated report
Create and configure a data source and dataset
Work with charts and tables
Publish a report

Module 10: Perform Advanced Analytics in Power BI

This module helps you apply additional features to enhance the report for analytical insights in the data, equipping you with the steps to use the report for actual data analysis. You will also perform advanced analytics using AI visuals on the report for even deeper and meaningful data insights.
Lessons
Advanced Analytics
Data Insights through AI visuals

Lab : Data Analysis in Power BI Desktop
Create animated scatter charts
Use the visual to forecast values
Work with Decomposition Tree visual
Work with the Key Influencers visual

After completing this module, students will be able to:
Explore statistical summary
Use the Analyze feature
Identify outliers in data
Conduct time-series analysis
Use the AI visuals
Use the Advanced Analytics custom visual

Module 11: Manage Datasets in Power BI

In this module you will learn the concepts of managing Power BI assets, including datasets and workspaces. You will also publish datasets to the Power BI service, then refresh and secure them.
Lessons
Parameters
Datasets
Security in Power BI

After completing this module, students will be able to:
Create and work with parameters
Manage datasets
Configure dataset refresh
Troubleshoot gateway connectivity