

Introduction to Power BI Training

Microsoft Authorized Training · Applied Technology Academy

The Power BI Course is designed to introduce complete beginners to the world of data analysis and visualization using Microsoft Power BI. Whether you're a student, a professional looking to upskill, or someone interested in the world of data analysis, this course is a perfect starting point.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Beginner	3 Days	None	\$109,029	Yes

Course Overview

It discusses in depth the industry- recognized steps from raw data to detailed analysis via five main stages:

- Loading data into Power BI from a wide range of data sources, such as CSV and XLS files
- Transforming data using Data Analysis Expressions (DAX), M, and Power Query languages
- Creating and extending a comprehensive data model with DAX
- Visualizing data in Power BI desktop using built-in tools
- Sharing and collaborating with the Power BI service or Power BI server

Course Outline

- **Chapter 1: Power BI Overview**
 - Visual analysis and visual analytics
 - Power BI Infrastructure
 - Loading Data
 - Introduction to Power BI Desktop
 - Hands-On Exercise 1.1 Loading and Visualizing data
- **Chapter 2: Transforming Data**
 - Using Power Query to clean, transform and load data
 - Profiling your data
 - Resolve data quality issues
 - Apply user-friendly names to Queries, tables, and columns
 - Import data from an Excel formatted report
 - Hands-On Exercise 2.1 Transforming Data with Power Query
 - Hands-On Exercise 2.2 Appending, Merging, and Combining Queries
- **Chapter 3: Creating a Data Model**
 - Understand the role of the Data Model in Power BI
 - Create table relationships

- Understand Cardinality and Cross Filtering
- Discuss Star and Snowflake schema
- Create a Date Dimension
- Build a Data Model from multiple Data sources
- Hands-On Exercise 3.1 Creating a Data Model
- **Chapter 4: Visualizing your Data**
 - Discuss Report settings
 - Choosing the right visualizations
 - Creating, formatting, and styling your reports
 - Using Hierarchies and Drilldown
 - Utilizing Slicers and Filters
 - Adding Custom Visualizations
 - Hands-On Exercise 4.1 Creating Reports Part 1
 - Hands-On Exercise 4.2 Creating Reports Part 2
 - Hands-On Exercise 4.3 Creating Reports Part 3
- **Chapter 5: Introduction to DAX, Calculated Columns and Measures**
 - Gain an Introduction to DAX
 - Differentiate between Calculated Columns and Measures
 - Create Calculated Columns
 - Create Measures
 - Understand Filter and Row context
 - Understand the power of the Calculate function
 - Hands-on Exercise 5.1 Introduction to DAX
 - Optional Hands-on Exercise 5.2 Intermediate Level DAX
- **Chapter 6: Collaboration and Sharing (Publishing Reports and Creating Dashboards)**
 - Discuss the Power BI Service and Power BI Server
 - Understand the main components of the Power BI Service
 - Publish a Power BI Project to the Power BI Service
 - Share Reports
 - Build and Share Dashboards
 - Hands-On Exercise 6.1 Collaboration and Sharing in the Power BI Service

Intended Audience

- BI and reporting professionals
- Data analysts
- Data professionals

Prerequisites

There are no prerequisites for attending this course. However, it is recommended that participants have basic knowledge of Excel and data analysis.

Follow-On Courses

- Tableau Desktop I: Fundamentals
- Tableau Desktop II: Intermediate
- Tableau Desktop III: Advanced

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.