APPLIED TECHNOLOGY ACADEMY

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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

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  - 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

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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.