

## Next-Level PowerBI for Experienced Users / Intermediate Power BI (TTDPB02)

PowerBI Advanced Reports, Data Extraction Skills, Content Pack Creation and Deployment, Application Integration and More

### Course Snapshot

- **Course:** Next-Level PowerBI for Experienced Users (TTDPB02)
- **Duration:** 2 days
- **Audience & Skill-Level:** This is an **intermediate-level** course for experienced PowerBI users.
- **Format / Hands-on:** This course combines engaging instructor-led presentations and practical demonstrations with hands-on exercises, challenge labs, use case exploration and engaging group activities. Student machines are required.
- **Flexible Delivery Options:** This course can be delivered for your team or organization online-live (virtual), onsite in-person, self-paced or across our immersive blended learning experience platform (LXP).
- **Public Schedule:** This course is currently available on our Public Open Enrollment Schedule.
- **Customizable:** We're flexible! This course agenda, topics, labs, hours and delivery modalities can be adjusted to target your specific training skills objectives, tools and learning goals. Please ask for details.

### Overview

**Next Level Power BI for Experienced Users** is a two day course that provides attendees already experienced with Microsoft Power BI basics with a hands-on exploration of intermediate and beyond level features. This course is geared for attendees ready to learn the advanced techniques that you, your business analysts, and your stakeholders need to create complex information from projects, program, and portfolio reporting to utilizing time-phased data and, potentially, data from your enterprise's other line-of-business tools.

### Learning Objectives

This hands-on course explores essential PowerBI data handling functions and reporting skills, coupling the most current, effective techniques with the soundest practices. Attendees of this course will gain practical examples from the experienced instructor who has deployed and configured Power BI reporting in a wide variety of businesses.

Working in a hands-on learning environment led by our expert facilitator, students will learn how to:

- Identify and retrieve data from data sources and understand the different connection methods.
- Optimize query performance
- Profile and examine the data and apply data shape transformations
- Develop a scalable and performance data model
- Enhance the data model with DAX using measures, calculated columns and tables
- Use variables and aggregations to optimize model performance
- Design and create reports and dashboards
- Select and add appropriate visualizations
- Create paginated reports
- Perform Advanced Analytics
- Create and manage workspaces
- Manage datasets and dataset refresh
- Apply row-level security

**Need different skills or topics?** If your team requires different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional PowerBI, reporting, data analytics, visualization and other related topics that may be blended with this course for a track that best suits your needs.

## Audience & Pre-Requisites

This is an **Intermediate** PowerBI course geared for experienced users who wish to leverage the tool's more advanced capabilities.

**Take Before:** Attending students should have skills equivalent to or should have recently attended one of these courses:

- TTDPB01 QuickStart to PowerBI for Analysts and Users (2 days)

## Related Courses

The following is a small subset of related courses. See the online catalog for a complete list of courses and learning paths.

- TTDPB01 QuickStart to PowerBI for Analysts and Users (2 days)
- TTDPB02 Next-Level PowerBI (2 days)
- TTDS6010 Data Visualization Fundamentals (2 days)

**Enhanced Learning Services:** Please also ask about our robust Learning Experience Platform (LXP), Skills Assessment & Skills Prep Services, Skills Immersion Programs & Camps, Coaching and Mentoring Services and Extended Learning Support programs.

## Course Topics / Agenda

*Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We will work with you to tune this course and level of coverage to target the skills you need most. Course agenda, topics and labs are subject to adjust during live delivery in response to student skill level, interests and participation.*

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|--|--|---|
| <p><b>1. Get Started with Microsoft Data Analytics</b></p> <ul style="list-style-type: none"> <li>Overview of Data Analysis</li> <li>Roles in Data</li> <li>Introduction to Power BI</li> <li>Building Blocks of Power BI</li> <li>Touring and Using Power BI</li> </ul>   | <p><b>4. Designing a Data Model in Power BI</b></p> <ul style="list-style-type: none"> <li>Introduction to Data Modeling</li> <li>Joins and Relationships</li> <li>Star Schemas</li> <li>Configure Table and Column Properties</li> <li>Modeling Challenges</li> <li>Creating new Hierarchies</li> </ul>     | <ul style="list-style-type: none"> <li>Choosing Effective Visualizations</li> <li>Adding Visualizations to Reports</li> <li>Format and Configure Visualizations</li> <li>Basic Interactions</li> <li>Configure Conditional Formatting</li> <li>Design for Accessibility</li> <li>Apply Slicing, Filtering, and Sorting</li> <li>Publish and Export Reports</li> </ul> |
| <p><b>2. Prepare Data in Power BI</b></p> <ul style="list-style-type: none"> <li>Introduction to getting data</li> <li>Getting data</li> <li>Select a Storage Mode</li> <li>Fix Performance Issues</li> <li>Identify and Resolve Data Import Errors</li> </ul>   | <p><b>5. Create Model Calculations using DAX in Power BI</b></p> <ul style="list-style-type: none"> <li>Introduction to DAX</li> <li>Calculated Columns</li> <li>Understanding Context</li> <li>The CALCULATE() Function</li> <li>Using Relationships Effectively</li> <li>Time-Intelligence</li> </ul>      | <p><b>8. Create Dashboards</b></p> <ul style="list-style-type: none"> <li>Introduction to Dashboards</li> <li>Set Mobile View</li> <li>Configure Data Alerts</li> <li>Explore Data by Asking Questions</li> <li>Configure Data Classification</li> </ul>  |
| <p><b>3. Cleaning, Transforming, and Loading Data</b></p> <ul style="list-style-type: none"> <li>Profiling Data and Examining Structures</li> <li>Identify column headers and names</li> <li>Shaping Table Structure</li> <li>Unpivot and Pivot columns</li> <li>Apply user-friendly value replacements</li> <li>Use Advanced Editor to Modify M Code</li> </ul> | <p><b>6. Optimize Model Performance</b></p> <ul style="list-style-type: none"> <li>Introduction to Performance Optimization</li> <li>Performance Analyzer</li> <li>Implement Table Granularity</li> <li>Optimize Performance</li> <li>Introduction to Aggregations</li> <li>Managing Aggregations</li> </ul> | <p><b>9. Create Paginated Reports</b></p> <ul style="list-style-type: none"> <li>Introduction to Paginated Reports</li> <li>Getting Data</li> <li>Create a Paginated Report</li> <li>Work with Charts and Tables</li> <li>Publish the Report</li> </ul>   |
|  | <p><b>7. Create Reports</b></p> <ul style="list-style-type: none"> <li>Design a Report Layout</li> </ul>   |   |

#### 10. Perform Advanced Analytics

- Introduction to Advanced Analytics
- Explore Statistical Summary
- Identify Outliers
- Advanced Analytics Custom Visuals
- Introduction to AI Visuals

#### 11. Create and Manage Workspaces

- Introduction to Workspaces
- Create a Workspace
- Create Apps

- Monitor Usage and Performance
- Data Protection

#### 12. Manage Datasets in Power BI

- Introduction to Datasets and Parameters
- Dataset Scheduled Refresh
- Incremental Data Refresh Settings
- Manage and Promote Datasets
- Troubleshooting Service Connectivity

#### Bonus Content / Time Permitting

#### 13. Row-level Security

- Security overview in Power BI
- Row-level security
- Static Method
- Dynamic Method

#### 14. Connect to OData feeds

### Setup Made Simple! Learning Experience Platform (LXP)

All applicable course software, digital courseware files or course notes, labs, data sets and solutions, live coaching support channels, CodeCoach.AI anytime tutor access, and rich extended learning and post training resources are provided for you in our “easy access, single source, no install required” online **Learning Experience Platform (LXP)**, remote lab and content environment. Access periods vary by course. We’ll collaborate with you to ensure your team is set up and ready to go well in advance of the class. Please inquire about set up details and options for your specific course of interest.

#### For More Information

For more information about our training services (instructor-led, self-paced or blended), collaborative coaching services, robust Learning Experience Platform (LXP), Career Experiences, public course schedule, partner programs, courseware licensing options or to see our complete list of course offerings, solutions and special offers, please visit us at [www.triveratech.com](http://www.triveratech.com), email [Info@triveratech.com](mailto:Info@triveratech.com) or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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