



MICROSOFT TRAINING

Power Bi Advanced Data Course

Elevate your data analysis with Power BI Advanced. Master complex data modeling, DAX, and advanced visualizations for impactful insights.

DURATION

8 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This advanced Power BI course is meticulously designed for data professionals seeking to elevate their data analysis and business intelligence skills beyond basic dashboard creation. Over 8 intensive hours, you will delve into the sophisticated capabilities of Microsoft Power BI, mastering advanced data modeling techniques, intricate DAX (Data Analysis Expressions) formulas, and powerful M-Query transformations. The course focuses on practical application, enabling you to construct robust, scalable, and high-performance analytical solutions that drive strategic decision-making within any organization. You'll explore how to handle complex data relationships, optimize report performance, and implement advanced security features, transforming raw data into actionable insights with unparalleled precision.

Participants will gain a profound understanding of Power BI's advanced ecosystem, including Power BI Desktop and Power BI Service, with a strong emphasis on best practices for data governance and report deployment. By the end of this course, you will be equipped to tackle challenging business scenarios, design sophisticated data models, and create interactive, highly optimized reports that stand out. This certification will not only deepen your technical expertise in Microsoft Power BI but also significantly enhance your value as a data-driven professional, positioning you for leadership roles in data analytics and business intelligence.

Duration	8 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Advanced Data Transformation with Power Query (M Language)

- Deep dive into M Language for complex data cleansing
- Creating custom functions and parameters
- Error handling and query diagnostics
- Advanced data source connections and incremental refresh setup
- Table buffering and query folding optimization

02 Module 2: Complex Data Modeling and Relationships

- Star Schema vs. Snowflake Schema for performance
- Handling many-to-many relationships and bridge tables
- Disconnected tables for advanced what-if analysis
- Role-playing dimensions and bidirectional cross-filtering
- Best practices for model design and cardinality management

03 Module 3: Deep Dive into DAX (Data Analysis Expressions)

- Understanding evaluation contexts (row, filter, query)
- Advanced CALCULATE and ALL/ALLEXCEPT functions
- Time Intelligence functions for complex period comparisons
- Creating calculation groups and dynamic format strings
- Using variables (VAR) for readability and performance
- DAX optimization techniques and best practices

04 Module 4: Advanced Visualizations and Report Design

- Custom visuals and R/Python integration
- Advanced conditional formatting and dynamic titles

- Report layout and user experience (UX) best practices
- Drill-through and bookmarking for interactive reports
- Integrating Power BI reports with Paginated Reports (SSRS)

05 Module 5: Power BI Service Advanced Features and Administration

- Implementing Row-Level Security (RLS) and object-level security
- Deployment pipelines for development, test, and production
- Managing data gateways and direct query connections
- Power BI Premium capacities and dataset refresh optimization
- Monitoring usage metrics and administrative portals

06 Module 6: Performance Tuning and Governance

- Using DAX Studio for query analysis and optimization
- Performance Analyzer for report element optimization
- VertiPaq Analyzer for data model efficiency
- Best practices for data governance and data lineage
- Strategies for scaling Power BI solutions in enterprise environments

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Senior Business Intelligence Developer**
- > **Advanced Data Analyst**
- > **Data Modeler and Report Optimization Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What are the essential prerequisites for enrolling in the Power BI Advanced Data Course?

To get the most out of this advanced course, participants should have a solid foundational understanding of Power BI Desktop, including experience with basic data loading, simple data transformations, creating common visualizations, and fundamental DAX calculations. Familiarity with relational database concepts is also highly recommended, as we will be delving into complex data modeling and M-Query scripting.

Q: How will mastering advanced DAX and M-Query in this course specifically enhance my data modeling capabilities for complex business scenarios?

This course will equip you with the expertise to design highly efficient and robust data models capable of handling intricate business logic. You'll learn to leverage advanced M-Query for sophisticated data preparation and transformation, including custom functions and query folding, ensuring data quality and performance. Furthermore, deep dives into advanced DAX functions like CALCULATE, time intelligence, and calculation groups will enable you to create complex, dynamic measures and KPIs that accurately reflect nuanced business requirements, far beyond what basic Power BI skills allow.

Q: Beyond standard dashboard creation, what specific advanced analytical problems will I be equipped to solve after completing this Power BI Advanced Data Course?

Upon completion, you will be proficient in solving advanced analytical challenges such as optimizing large datasets for

performance, implementing complex security roles (Row-Level Security) across various user groups, and conducting sophisticated 'what-if' analyses using disconnected tables and dynamic parameters. You will also be able to integrate Power BI with other data services, build self-service BI solutions for end-users, troubleshoot performance bottlenecks in existing reports, and design scalable enterprise-level Power BI deployments, enabling your organization to derive deeper, more reliable insights.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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