



POWER BI DASHBOARDS AND DAX FOR GOVERNMENT ANALYSTS TRAINING COURSE

14 - 18 DEC 2026

KUALA LUMPUR

5200 € (PER PERSON)

REF: #BUI9711_54501



COURSE INTRODUCTION / OVERVIEW:

In the public sector, the ability to transform complex government data into clear, actionable insights is crucial for effective policymaking, resource allocation, and public service. This training course, offered by BIG BEN Training Center, is designed to give government analysts and data professionals the skills to master Power BI, a leading business intelligence tool. We move beyond basic reporting to focus on creating professional dashboards and using the powerful DAX language for complex analysis. Participants will gain expertise in data visualization, data modeling, and performance optimization. The program explores how to handle large-scale government datasets, ensuring accuracy and efficiency in all analytical tasks. Drawing on key concepts from authors like Rob Collie and Avi Singh, known for their work in the Power BI community, we will explore the principles outlined in their book "Power Pivot and DAX." This course is built to address the specific needs of government agencies, helping them to improve transparency, streamline reporting, and make data-driven decisions that benefit citizens.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Government data analysts and intelligence officers.
- Public sector policy advisors.
- Financial and budget analysts in government departments.
- Data scientists and researchers work with public data.
- Senior government officials who need to interpret complex data.
- IT and business intelligence professionals in the public sector.
- Anyone responsible for performance measurement and reporting in a government agency.

TARGET SECTORS AND INDUSTRIES:

- Public administration and government agencies.
- Military and defense.
- Law enforcement and security.
- Healthcare and public health services.
- Education and academic institutions.
- Non-profit and quasi-governmental organizations.
- Finance and regulatory bodies.

TARGET ORGANIZATIONS DEPARTMENTS:

- Strategy and performance departments.
- Finance and budget offices.
- Policy and planning departments.
- Research and analytics units.
- Human resources and operations divisions.
- Public information and communications departments.
- IT and data management departments.



COURSE OFFERINGS:

By the end of this course, the participants will have able to:

- Design and build interactive, professional-grade Power BI dashboards tailored for government reporting.
- Master Data Analysis Expressions (DAX) to create complex measures, calculated columns, and custom tables.
- Develop effective data models for handling large and diverse government datasets.
- Implement best practices for data visualization to clearly communicate insights to stakeholders.
- Optimize Power BI report performance to ensure fast, efficient data analysis.
- Integrate data from various sources, including public databases, spreadsheets, and SQL servers.
- Automate data refresh processes for timely and accurate reporting.

COURSE METHODOLOGY:

This training course is built on a practical, hands-on methodology. It is not about passive listening but about active learning. Each session combines clear explanations of core concepts with live, step-by-step demonstrations. Participants will immediately apply what they learn through a series of practical exercises and case studies based on real-world government data challenges. These exercises will simulate common public sector tasks, such as tracking departmental spending, analyzing public service outcomes, and creating policy-relevant reports. Group work and peer-to-peer learning will encourage participants to solve problems together, sharing their unique perspectives. Throughout the program, BIG BEN Training Center will provide expert guidance and feedback, ensuring that participants not only learn the tools but also understand the strategic application of their skills. The course is structured to build on concepts daily, so participants finish with a comprehensive understanding of Power BI and a portfolio of reports they can use right away to create value in their government roles.

COURSE AGENDA (COURSE UNITS):

UNIT ONE: INTRODUCTION TO POWER BI FOR PUBLIC SECTOR ANALYTICS

- Understanding the Power BI ecosystem and its relevance for government analysts.
- Data privacy and security considerations in the public sector.
- The Power BI Desktop interface and core components.
- Importing and cleaning data from various government data sources.
- Introduction to data modeling and relationships.
- Creating simple visuals and basic reports.

- A deep dive into public sector data challenges.

UNIT TWO: MASTERING DATA ANALYSIS EXPRESSIONS (DAX)



- The fundamentals of DAX: calculated columns versus measures.
- Introduction to the DAX formula language.
- Using common DAX functions for aggregation, filtering, and time intelligence.
- Creating powerful measures to answer complex policy questions.
- Using variables and comments to write clean, readable DAX code.
- Troubleshooting and debugging DAX formulas.
- Practical DAX examples for public sector analysis.

UNIT THREE: ADVANCED DATA MODELING AND PERFORMANCE

- Best practices for designing efficient data models.
- The star schema and its importance in Power BI.
- Handling complex relationships, including many-to-many.
- Optimizing data for performance using Power Query and DAX.
- Introduction to DAX Studio for performance analysis.
- Understanding row context and filter context.
- Creating calculated tables and their applications.

UNIT FOUR: DESIGNING AND BUILDING PROFESSIONAL DASHBOARDS

- Principles of effective dashboard design and data storytelling.
- Creating interactive and user-friendly visuals.
- Using Slicers, Bookmarks, and buttons for enhanced navigation.
- Telling a story with your data to influence policy decisions.
- Applying conditional formatting to highlight key trends and insights.
- Best practices for sharing and collaborating on Power BI dashboards.
- Designing dashboards for different government stakeholders.

UNIT FIVE: REAL-WORLD APPLICATIONS AND FINAL PROJECT

- Case study: analyzing public service delivery metrics.
- Case study: tracking government spending and budget performance.
- Hands-on workshop: building an end-to-end Power BI solution.
- Best practices for data governance in government agencies.
- Strategies for communicating data-driven insights to leadership.
- Final project: building a comprehensive dashboard for a government use case.
- Wrap-up and next steps for continuous learning.

FAQ:

QUALIFICATIONS REQUIRED FOR REGISTERING TO THIS COURSE?

There are no requirements.



HOW LONG IS EACH DAILY SESSION, AND WHAT IS THE TOTAL NUMBER OF TRAINING HOURS FOR THE COURSE?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

SOMETHING TO THINK ABOUT:

In what ways can a government department's ability to master data visualization and DAX fundamentally alter its approach to public accountability and strategic planning?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course is distinguished by its sharp focus on the specific needs of government and public sector analysts. Unlike generic Power BI courses, our curriculum is built around real-world public sector challenges, using case studies that simulate government data analysis, from budget tracking to public service reporting. We place a significant emphasis on mastering the DAX language, which is essential for the complex calculations and data manipulations often required in government. The program also highlights best practices for data security and governance, which are critical in the public sector. Instead of just showing how the tools work, we teach participants how to apply these tools to solve real problems and create actionable insights. This focus on practical application and the unique context of government work ensures that participants gain not just technical skills but also the strategic understanding needed to use data as a powerful asset for their organizations. This specialized approach makes the course a transformative professional development opportunity.