Advanced Power Business Intelligence DAX & Time Intelligence Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Advanced Power Business Intelligence DAX & Time Intelligence Training Course equips professionals with in-depth knowledge and practical skills to harness the full potential of Microsoft Power BI for advanced data modeling, analytics, and visualization. Advanced Power BI DAX & Time Intelligence Training Course emphasizes mastering Data Analysis Expressions (DAX), complex time intelligence calculations, and dynamic reporting techniques to transform raw data into actionable insights. Participants will learn to optimize data models, automate reporting, and make data-driven business decisions efficiently.

Designed for analysts, business intelligence professionals, and data enthusiasts, the program combines real-world scenarios with hands-on exercises to enhance problem-solving capabilities and analytical thinking. With a focus on advanced DAX functions, time intelligence patterns, and performance optimization, learners will acquire skills to implement scalable solutions that drive strategic business outcomes.

Programme Curriculum

Advanced Power Business Intelligence DAX & Time Intelligence Training Course

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Course Objectives

1. Develop advanced proficiency in DAX functions and formulas for complex data analysis.
2. Master time intelligence calculations for comparative period reporting and trend analysis.
3. Create dynamic and interactive Power BI reports with enhanced visualization techniques.
4. Optimize Power BI data models for large datasets and high-performance analytics.
5. Implement calculated tables, measures, and columns effectively in enterprise scenarios.
6. Apply advanced filtering, row-level security, and dynamic data modeling strategies.
7. Integrate multiple data sources for comprehensive business insights.
8. Design custom DAX functions to solve unique business challenges.
9. Perform scenario analysis using advanced calculation patterns.
10. Develop automated dashboards and KPI monitoring systems.
11. Enhance problem-solving skills through practical case studies and real-world exercises.
12. Leverage time intelligence for forecasting, trend detection, and decision support.
13. Enable actionable insights to support data-driven strategic decisions across departments.

Organizational Benefits

1. Streamlined reporting processes and reduced manual intervention.
2. Improved decision-making through accurate time-based analytics.
3. Enhanced efficiency in data modeling and report generation.
4. Ability to identify business trends and patterns quickly.
5. Increased ROI by optimizing Power BI implementations.
6. Better collaboration across teams through centralized dashboards.
7. Improved data governance and reporting consistency.
8. Enhanced analytical capabilities of employees.
9. Reduction in reporting errors and improved accuracy.
10. Scalable solutions for enterprise-wide business intelligence needs.

Target Audiences

1. Business intelligence analysts seeking advanced DAX knowledge
2. Data analysts working with Power BI in dynamic environments
3. Finance and operations professionals requiring trend analysis
4. Reporting specialists aiming for advanced dashboard development
5. IT professionals supporting enterprise Power BI deployments
6. Managers and decision-makers requiring actionable insights
7. Consultants providing data solutions for multiple industries
8. Data enthusiasts aiming to specialize in Power BI advanced analytics

Course Duration: 5 days

Course Modules

Module 1: Advanced DAX Functions

- Deep dive into CALCULATE, FILTER, and ALL functions
- Understanding DAX context: row, filter, and evaluation context
- Advanced aggregation techniques
- Optimizing DAX calculations for performance
- Troubleshooting common DAX errors
- Case Study: Sales performance analysis using dynamic DAX measures

Module 2: Time Intelligence Fundamentals

- Understanding time intelligence functions in DAX
- Year-to-date, quarter-to-date, month-to-date calculations
- Parallel period and same period last year analysis
- Rolling averages and cumulative totals
- Best practices for time-based calculations
- Case Study: Revenue trend comparison across fiscal periods

Module 3: Calculated Tables and Columns

- Difference between calculated columns and measures
- Creating dynamic calculated tables
- Using variables for efficient DAX formulas
- Enhancing model relationships with calculated tables
- Best practices for memory optimization
- Case Study: Customer segmentation using calculated tables

Module 4: Advanced Filtering and Row-Level Security

- Implementing row-level security in Power BI
- Dynamic role-based access control
- Using advanced filters in DAX queries
- Security implications for enterprise datasets
- Monitoring user access and compliance
- Case Study: Multi-department financial reporting with RLS

Module 5: Data Modeling Optimization

- Optimizing data models for large datasets
- Star schema vs snowflake schema best practices
- Reducing model size and improving refresh times
- Hierarchies, relationships, and indexing techniques
- Performance tuning using DAX Studio
- Case Study: Optimizing sales database for high-performance analytics

Module 6: Advanced Visualizations

- Interactive charts and drill-through reports
- Custom visuals and Power BI marketplace integration
- Conditional formatting and KPI indicators
- Combining multiple visuals for storytelling
- Best practices for dashboard design
- Case Study: Executive dashboard for operational KPIs

Module 7: Scenario and Forecast Analysis

- Performing “what-if” analysis in Power BI
- Scenario modeling using DAX variables
- Forecasting using time-series functions
- Integrating external predictive models
- Visualizing scenarios for decision-making
- Case Study: Forecasting product demand using historical sales data

Module 8: Automating Dashboards and Reports

- Scheduling refresh and automation techniques
- Using Power BI Service for automated reports
- Alerts and data-driven notifications
- Integrating Power BI with Microsoft Power Automate
- Best practices for automation governance
- Case Study: Automated KPI monitoring system

Training Methodology

- Instructor-led interactive sessions with real-time demonstrations
- Hands-on exercises to reinforce learning through practice
- Live case studies reflecting real-world business scenarios
- Group discussions and peer-to-peer problem solving
- Access to sample datasets and templates for practice
- Personalized feedback on assignments and exercises

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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