Power Business Intelligence Advanced Techniques 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

Power BI has become the gold standard for data visualization and business intelligence in modern organizations. This advanced training course empowers professionals to transform raw data into actionable insights through sophisticated analytical techniques and dynamic reporting. Participants will learn to leverage Power BI's full potential, optimizing dashboards, reports, and data models to drive smarter decision-making and enhance operational efficiency.

Power Business Intelligence Advanced Techniques Training Course is designed for data professionals, analysts, and decision-makers seeking to elevate their analytical capabilities. By integrating advanced DAX functions, custom visuals, and performance optimization strategies, learners will gain hands-on expertise in creating interactive and insightful dashboards. This comprehensive training ensures participants are equipped to address complex business challenges using data-driven strategies.

Programme Curriculum

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Course Objectives

1. Master advanced Power BI data modeling techniques for complex datasets.
2. Implement sophisticated DAX formulas for dynamic calculations and insights.
3. Optimize Power BI reports for performance and scalability.
4. Design interactive dashboards using custom visuals and themes.
5. Automate data refreshes and streamline ETL processes in Power BI.
6. Integrate Power BI with external data sources and APIs for real-time analytics.
7. Develop advanced analytics using AI and predictive modeling in Power BI.
8. Apply row-level security for enhanced data governance and compliance.
9. Implement drill-through and drill-down functionalities for interactive reporting.
10. Create KPIs and strategic metrics for executive-level decision-making.
11. Conduct scenario analysis and trend forecasting using Power BI tools.
12. Troubleshoot and debug complex Power BI reports effectively.
13. Collaborate across teams with shared workspaces and Power BI Service.

Organizational Benefits

- Accelerated decision-making through actionable insights
- Improved data governance and security
- Enhanced reporting accuracy and efficiency
- Reduced operational risks with predictive analytics
- Streamlined business processes through automated workflows
- Greater collaboration via shared dashboards and workspaces
- Cost reduction through optimized resource allocation
- Increased ROI on data and analytics initiatives
- Empowered teams with self-service BI capabilities
- Strengthened competitive advantage via real-time insights

Target Audiences

- Business Analysts
- Data Analysts
- BI Developers
- Data Scientists
- IT Professionals
- Managers and Team Leads
- Financial Analysts
- Marketing Analysts

Course Duration: 5 days

Course Modules

Module 1: Advanced Data Modeling in Power BI

- Understanding complex relationships and data hierarchies

- Implementing star and snowflake schema designs
- Optimizing data models for performance
- Handling large datasets with incremental refresh
- Integrating multiple data sources into a unified model
- Case Study: Building a high-performance sales data model for a retail company

Module 2: Mastering DAX Functions

- Advanced calculations using CALCULATE, FILTER, and ALL
- Time intelligence functions for trend analysis
- Conditional and dynamic measures
- Optimizing DAX for large datasets
- Creating reusable DAX expressions
- Case Study: Developing a dynamic financial reporting dashboard

Module 3: Interactive Dashboard Design

- Best practices for dashboard layout and visualization
- Using slicers, bookmarks, and drill-through features
- Custom visuals implementation
- Theme and formatting optimization
- Storytelling with data in dashboards
- Case Study: Designing a management KPI dashboard

Module 4: Power BI Performance Optimization

- Monitoring report performance with Performance Analyzer
- Query optimization strategies
- Reducing data model size and complexity
- Optimizing DAX queries for speed
- Efficient data refresh strategies
- Case Study: Performance tuning a multi-department dashboard

Module 5: Data Connectivity and Integration

- Connecting to SQL, Excel, and cloud-based data sources
- API integration for real-time analytics
- Combining multiple sources with Power Query
- Handling incremental data updates
- Ensuring data consistency and accuracy
- Case Study: Integrating live sales and inventory data

Module 6: Advanced Analytics and AI in Power BI

- Using AI visuals for predictive analytics
- Sentiment analysis and text analytics
- Creating forecasting models
- Clustering and anomaly detection
- Implementing Q&A and cognitive services
- Case Study: Predicting customer churn for a subscription-based company

Module 7: Security and Governance

- Implementing row-level security (RLS)
- Workspace management best practices
- Sharing reports securely
- Audit logging and compliance
- Data governance strategies
- Case Study: Securing sensitive financial data across departments

Module 8: Automation and Collaboration

- Setting up scheduled data refreshes
- Automating report distribution
- Using Power BI Service for collaboration
- Sharing dashboards with stakeholders
- Version control and workspace management
- Case Study: Streamlining monthly reporting for a multinational team

Training Methodology

- Instructor-led online and classroom sessions
- Hands-on exercises with real-world datasets
- Interactive workshops and group activities
- Scenario-based learning and problem-solving
- Continuous assessments and feedback
- Case studies for practical application

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

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com