Power Business Intelligence Report Optimization 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 emerged as a leading business intelligence and analytics tool, enabling organizations to transform raw data into actionable insights. In today's data-driven world, the efficiency and performance of Power BI reports can significantly influence decision-making, operational efficiency, and overall business competitiveness. Power Business Intelligence Report Optimization Training Course equips participants with advanced techniques to enhance report performance, streamline dashboards, and implement best practices for data modeling, visualization, and query optimization. Participants will gain hands-on experience, ensuring they can apply optimization strategies effectively in real-world scenarios.

This course targets professionals looking to maximize the performance of their Power BI solutions by reducing load times, improving query efficiency, and delivering seamless reporting experiences. By integrating practical exercises, case studies, and interactive learning methodologies, participants will develop the technical skills, strategic understanding, and analytical acumen required to optimize large-scale Power BI reports. The training emphasizes measurable outcomes, enabling organizations to achieve faster insights, better resource utilization, and improved decision-making capabilities.

Programme Curriculum

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Course Objectives

1. Understand Power BI architecture and performance bottlenecks.
2. Apply advanced data modeling techniques for optimized report performance.
3. Optimize DAX calculations to improve query efficiency.
4. Enhance report loading times using efficient data transformation strategies.
5. Design high-performing dashboards with best visualization practices.
6. Implement row-level security without compromising performance.
7. Reduce report complexity through query folding and data reduction.
8. Analyze and optimize large datasets for faster processing.
9. Troubleshoot common Power BI performance issues effectively.
10. Leverage performance analyzer tools for real-time monitoring.
11. Integrate best practices for incremental data refresh and caching.
12. Apply optimization techniques for shared datasets and collaborative environments.
13. Develop actionable insights through optimized reporting strategies.

Organizational Benefits

- Faster report loading and reduced downtime.
- Improved decision-making from real-time insights.
- Enhanced user experience with interactive dashboards.
- Reduced operational costs from optimized data handling.
- Scalable reporting infrastructure for large datasets.
- Improved collaboration across business units.
- Minimized technical debt with best practices implementation.
- Better compliance and security with efficient role management.
- Increased adoption of Power BI across teams.
- Stronger competitive advantage through optimized analytics.

Target Audiences

- Business analysts seeking to improve report efficiency.
- Data engineers responsible for Power BI data modeling.
- BI developers focused on dashboard performance.
- IT professionals managing enterprise reporting solutions.
- Analytics managers aiming to optimize team productivity.
- Financial analysts leveraging Power BI for reporting.
- Project managers overseeing data-driven projects.
- Consultants implementing Power BI in client environments.

Course Duration: 5 days

Course Modules

Module 1: Power BI Architecture and Performance Fundamentals

- Overview of Power BI components and service architecture
- Identifying performance bottlenecks in reports and dashboards
- Understanding query execution and data load processes
- Evaluating dataset design for optimization
- Key metrics for report performance monitoring
- Case Study: Diagnosing and resolving slow-loading sales dashboards

Module 2: Data Modeling Optimization Techniques

- Advanced data modeling strategies for efficiency
- Star schema vs. snowflake schema design
- Reducing table complexity and unnecessary columns
- Using calculated tables and columns effectively
- Optimizing relationships for large datasets
- Case Study: Redesigning a financial dataset for faster analytics

Module 3: Optimizing DAX Calculations

- Understanding DAX evaluation context
- Best practices for measures and calculated columns
- Reducing complex DAX formulas for performance
- Using variables and aggregation techniques
- Optimizing time intelligence calculations
- Case Study: Enhancing KPI calculations for enterprise reporting

Module 4: Efficient Data Transformation and Query Folding

- Power Query optimization strategies
- Reducing data transformation overhead
- Leveraging query folding for faster data refresh
- Filtering and aggregating data efficiently
- Best practices for applied steps in queries
- Case Study: Improving ETL performance for sales data

Module 5: Dashboard and Visualization Optimization

- Designing high-performing dashboards
- Reducing visual complexity for better rendering
- Efficient use of slicers, filters, and bookmarks
- Visual-level, page-level, and report-level optimizations
- Using conditional formatting judiciously
- Case Study: Optimizing an executive dashboard for quick insights

Module 6: Performance Analyzer and Monitoring Tools

- Introduction to Performance Analyzer in Power BI Desktop
- Identifying slow visuals and queries
- Monitoring report performance in the Power BI Service

- Logging and interpreting refresh statistics
- Using third-party tools for deeper analysis
- Case Study: Diagnosing and fixing performance issues in a retail report

Module 7: Advanced Optimization Techniques

- Incremental data refresh setup and benefits
- Aggregations for large datasets
- Optimizing shared datasets and Power BI apps
- Implementing caching strategies for reports
- Row-level security implementation without performance loss
- Case Study: Optimizing a multi-departmental reporting solution

Module 8: Real-World Power BI Report Optimization

- Integrating optimization practices across multiple reports
- Troubleshooting complex performance issues
- Evaluating impact of new features on report performance
- Creating a report optimization checklist
- Building an action plan for continuous improvement
- Case Study: Enterprise-wide Power BI optimization project

Training Methodology

- Interactive instructor-led sessions with practical exercises
- Hands-on lab sessions for real-world scenario application
- Case studies for problem-solving and critical analysis
- Group discussions and collaborative learning sessions
- Continuous performance monitoring and feedback
- Post-training support and Q&A sessions

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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