Google BigQuery 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

Google BigQuery has emerged as a leading cloud-based data warehouse solution, revolutionizing how organizations analyze massive datasets with speed, efficiency, and scalability. Google BigQuery Training Course is designed to equip professionals with hands-on expertise in BigQuery, empowering them to harness the power of cloud data analytics for actionable business insights. Participants will learn data ingestion, SQL querying, optimization techniques, and data visualization strategies, ensuring mastery of end-to-end BigQuery workflows.

This course focuses on practical implementation, real-world scenarios, and industry best practices. It is suitable for data analysts, business intelligence professionals, and engineers who want to leverage BigQuery for high-performance analytics, predictive modeling, and seamless integration with other Google Cloud Platform services. By the end of this course, learners will confidently manage, analyze, and visualize large-scale datasets, driving data-driven decision-making within their organizations.

Programme Curriculum

Google BigQuery Training Course

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performance analytics, predictive modeling, and seamless integration with other Google Cloud Platform services. By the end of this course, learners will confidently manage, analyze, and visualize large-scale datasets, driving data-driven decision-making within their organizations.

Course Objectives

1. Understand Google BigQuery architecture and its cloud-based advantages
2. Master SQL queries for efficient data analysis
3. Optimize BigQuery performance and storage for large datasets
4. Implement data ingestion pipelines from diverse sources
5. Integrate BigQuery with Google Cloud Platform services
6. Build dynamic dashboards and reports with Data Studio
7. Perform real-time analytics for actionable business insights
8. Apply machine learning models using BigQuery ML
9. Ensure data security and compliance in cloud environments
10. Automate workflows using scheduled queries and scripts
11. Troubleshoot performance and query bottlenecks effectively
12. Explore advanced analytics techniques and predictive modeling
13. Develop skills for organizational scalability and cloud adoption

Organizational Benefits

- Enhanced data-driven decision-making capabilities
- Faster query processing for large-scale datasets
- Streamlined integration with Google Cloud services
- Improved operational efficiency through automation
- Secure and compliant cloud data storage solutions
- Empowered teams with advanced analytics skills
- Reduced dependency on on-premises infrastructure
- Optimized resource utilization and cost management
- Accelerated business insights delivery
- Competitive advantage through predictive analytics

Target Audiences

- Data Analysts
- Business Intelligence Professionals
- Data Engineers
- Cloud Architects
- Database Administrators
- IT Managers
- Project Managers in Analytics
- Machine Learning Enthusiasts

Course Duration: 5 days

Course Modules

Module 1: Introduction to Google BigQuery

- Understanding BigQuery architecture

- Key features and benefits for businesses
- Differences between traditional data warehouses and BigQuery
- Cloud storage and compute separation
- Case Study: Company X optimizes sales data analytics

Module 2: Data Ingestion and Loading

- Loading structured and unstructured data
- Using Cloud Storage and Cloud Pub/Sub
- Streaming data ingestion techniques
- Best practices for data ingestion
- Case Study: Real-time customer analytics pipeline

Module 3: SQL Querying in BigQuery

- Writing standard SQL queries
- Using functions, joins, and subqueries
- Query optimization techniques
- Advanced analytical functions
- Case Study: Sales trend analysis

Module 4: Performance Optimization

- Query execution strategies
- Partitioning and clustering datasets
- Optimizing storage and reducing costs
- Monitoring query performance
- Case Study: High-volume transactional data analysis

Module 5: Data Visualization

- Integrating with Google Data Studio
- Building dashboards for business intelligence
- Using charts, graphs, and tables
- Interactive reports for stakeholders
- Case Study: Marketing campaign performance dashboard

Module 6: BigQuery ML and Predictive Analytics

- Overview of BigQuery ML
- Training regression and classification models
- Evaluating model performance
- Deploying models for predictions
- Case Study: Customer churn prediction model

Module 7: Automation and Workflows

- Scheduled queries and alerts
- Automating ETL pipelines
- Using Cloud Functions for triggers
- Workflow monitoring and logging
- Case Study: Automated reporting for executive team

Module 8: Security, Compliance, and Best Practices

- Data access control and IAM roles
- Encryption at rest and in transit
- GDPR and HIPAA compliance considerations
- Audit logging and monitoring
- Case Study: Securing sensitive financial data

Training Methodology

- Instructor-led interactive sessions
- Hands-on labs with real datasets
- Group exercises and collaborative projects
- Scenario-based problem solving
- Continuous assessment through quizzes and assignments
- Case studies for real-world 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

Start Date	End Date	Location	Price
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