Azure Data Analytics 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

In today’s data-driven economy, organizations rely on cloud-based analytics platforms to extract actionable insights, improve decision-making, and drive digital transformation. Azure Data Analytics Training Course is designed to equip professionals with cutting-edge skills in cloud computing, big data analytics, data engineering, and business intelligence using Microsoft Azure. This course integrates industry-relevant tools such as Azure Synapse Analytics, Azure Data Factory, Power BI, and Azure Data Lake, ensuring learners gain hands-on expertise in managing, processing, and visualizing large-scale datasets. With strong emphasis on real-world applications, participants will develop competencies in data integration, data warehousing, data governance, and advanced analytics.

The course focuses on modern data architecture, scalable analytics solutions, and AI-driven insights, aligning with current industry trends such as data democratization, predictive analytics, and cloud-native solutions. Learners will gain practical experience in designing end-to-end data pipelines, implementing ETL processes, and building interactive dashboards for strategic insights. By the end of the program, participants will be capable of leveraging Azure analytics services to optimize business performance, enhance data security, and enable intelligent decision-making across industries.

Programme Curriculum

Azure Data Analytics Training Course

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Course Objectives

1. Develop expertise in Azure cloud data analytics platforms and services
2. Master big data processing using Azure Synapse Analytics and Spark
3. Implement scalable ETL pipelines using Azure Data Factory
4. Design modern data warehousing solutions in the cloud
5. Build interactive dashboards using Power BI for business intelligence
6. Apply data governance and compliance best practices
7. Analyze structured and unstructured data using advanced analytics
8. Integrate AI and machine learning into data analytics workflows
9. Optimize data storage solutions with Azure Data Lake
10. Perform real-time analytics using streaming data solutions
11. Ensure data security, privacy, and role-based access control
12. Automate data workflows using cloud-native technologies
13. Enable data-driven decision-making with predictive analytics

Organizational Benefits

- Improved data-driven decision-making capabilities
- Enhanced operational efficiency through automation
- Scalable cloud-based analytics infrastructure
- Better data governance and compliance management
- Real-time insights for competitive advantage
- Reduced data processing costs with optimized solutions
- Increased productivity through modern BI tools
- Strengthened data security and risk management
- Faster deployment of analytics solutions
- Improved collaboration across departments

Target Audiences

1. Data Analysts
2. Business Intelligence Professionals
3. Data Engineers
4. IT Professionals
5. Cloud Solution Architects
6. Database Administrators
7. Software Developers
8. Project Managers

Course Duration: 5 days

Course Modules

Module 1: Introduction to Azure Data Analytics

- Overview of Azure analytics ecosystem
- Key services: Azure Synapse, Data Factory, Data Lake
- Cloud computing fundamentals
- Data analytics lifecycle
- Azure portal navigation and setup
- Case Study: Implementing a cloud analytics solution for a retail company

Module 2: Azure Data Factory and ETL Pipelines

- Data integration concepts
- Building ETL and ELT pipelines
- Data transformation techniques
- Scheduling and monitoring workflows
- Integration with multiple data sources
- Case Study: Automating data ingestion for financial reporting

Module 3: Azure Data Lake and Storage Solutions

- Data Lake architecture and design
- Storage tiers and optimization
- Data ingestion and management
- Security and access control
- Data lifecycle management
- Case Study: Managing large-scale unstructured data for healthcare

Module 4: Azure Synapse Analytics

- Data warehousing concepts
- Querying using SQL pools
- Spark integration for big data
- Performance tuning strategies
- Data visualization integration
- Case Study: Building a data warehouse for e-commerce analytics

Module 5: Data Visualization with Power BI

- Power BI fundamentals
- Creating dashboards and reports
- Data modeling and transformation
- DAX functions and calculations
- Publishing and sharing insights
- Case Study: Developing executive dashboards for business insights

Module 6: Real-Time Data Analytics

- Streaming data concepts

- Azure Stream Analytics
- Event Hub integration
- Real-time dashboard creation
- Monitoring live data streams
- Case Study: Real-time monitoring system for logistics operations

Module 7: Data Governance and Security

- Data compliance frameworks
- Role-based access control
- Data encryption techniques
- Monitoring and auditing
- Risk management strategies
- Case Study: Implementing secure data governance in banking

Module 8: Advanced Analytics and Machine Learning Integration

- Introduction to AI in analytics
- Predictive analytics models
- Integration with Azure Machine Learning
- Data science workflows
- Model deployment and monitoring
- Case Study: Predictive analytics for customer behavior analysis

Training Methodology

- Instructor-led training sessions with expert facilitators
- Hands-on labs and practical exercises using Azure tools
- Real-world case studies and industry scenarios
- Interactive discussions and group activities
- Cloud-based simulations and guided projects
- Continuous assessment and feedback sessions
- Access to learning resources and documentation
- Post-training support and knowledge sharing

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