AWS Analytics Services 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 are leveraging cloud-based analytics platforms to transform raw data into actionable insights, drive innovation, and gain competitive advantage. AWS Analytics Services provide a scalable, secure, and high-performance ecosystem for data ingestion, processing, storage, and visualization. This course equips learners with hands-on expertise in big data analytics, real-time data processing, data lakes, machine learning integration, and cloud-native business intelligence using AWS tools such as Amazon Redshift, AWS Glue, Amazon Kinesis, and Amazon QuickSight. With a focus on digital transformation, data engineering, and cloud computing trends, participants will learn to design, implement, and optimize modern analytics architectures.

AWS Analytics Services Training Course is designed to empower professionals with cutting-edge skills in data analytics, cloud infrastructure, and data visualization. Through practical labs, real-world case studies, and industry-relevant scenarios, learners will explore end-to-end data pipelines, ETL processes, predictive analytics, and data governance strategies. The course integrates trending keywords such as big data, cloud analytics, data warehousing, real-time streaming, artificial intelligence, and business intelligence to ensure SEO-friendly and future-ready learning. By the end of the training, participants will be able to build scalable analytics solutions that align with business objectives and industry best practices.

Programme Curriculum

AWS Analytics Services Training Course

Introduction

In today’s data-driven economy, organizations are leveraging cloud-based analytics platforms to transform raw data into actionable insights, drive innovation, and gain competitive advantage. AWS Analytics Services provide a scalable, secure, and high-performance ecosystem for data ingestion, processing, storage, and visualization. This course equips learners with hands-on expertise in big data analytics, real-time data processing, data lakes,

machine learning integration, and cloud-native business intelligence using AWS tools such as Amazon Redshift, AWS Glue, Amazon Kinesis, and Amazon QuickSight. With a focus on digital transformation, data engineering, and cloud computing trends, participants will learn to design, implement, and optimize modern analytics architectures.

AWS Analytics Services Training Course is designed to empower professionals with cutting-edge skills in data analytics, cloud infrastructure, and data visualization. Through practical labs, real-world case studies, and industry-relevant scenarios, learners will explore end-to-end data pipelines, ETL processes, predictive analytics, and data governance strategies. The course integrates trending keywords such as big data, cloud analytics, data warehousing, real-time streaming, artificial intelligence, and business intelligence to ensure SEO-friendly and future-ready learning. By the end of the training, participants will be able to build scalable analytics solutions that align with business objectives and industry best practices.

Course Objectives

1. Understand AWS Analytics ecosystem and cloud-based data architecture
2. Design scalable data lakes using AWS storage services
3. Implement ETL pipelines with AWS Glue and data integration tools
4. Analyze big data using Amazon Redshift and Athena
5. Build real-time data streaming solutions using Amazon Kinesis
6. Develop data visualization dashboards using Amazon QuickSight
7. Apply data security and governance best practices in AWS
8. Optimize performance and cost management for analytics workloads
9. Integrate machine learning with analytics workflows
10. Monitor and troubleshoot analytics pipelines effectively
11. Implement serverless analytics solutions for agility
12. Automate data workflows using cloud-native tools
13. Deploy enterprise-level analytics solutions for business intelligence

Organizational Benefits

- Improved decision-making through real-time analytics
- Enhanced data-driven culture across departments
- Reduced infrastructure costs with cloud-based solutions
- Faster data processing and insights generation
- Scalable analytics architecture for business growth
- Improved data security and compliance
- Streamlined data integration and management
- Increased operational efficiency
- Better customer insights and personalization
- Competitive advantage through advanced analytics

Target Audiences

1. Data Analysts
2. Data Engineers
3. Cloud Architects
4. Business Intelligence Professionals
5. IT Managers
6. Software Developers

7. Database Administrators
8. Digital Transformation Specialists

Course Duration: 5 days

Course Modules

Module 1: Introduction to AWS Analytics Services

- Overview of AWS analytics ecosystem
- Key services and architecture fundamentals
- Cloud analytics trends and use cases
- Benefits of AWS analytics solutions
- Setting up AWS environment
- Case Study: Implementing analytics infrastructure for a startup

Module 2: Data Collection and Ingestion

- Data ingestion strategies and tools
- Using Amazon Kinesis for streaming data
- Batch data ingestion methods
- Data pipeline design principles
- Data integration best practices
- Case Study: Real-time data ingestion for e-commerce platform

Module 3: Data Storage and Data Lakes

- Designing data lakes with Amazon S3
- Data partitioning and storage optimization
- Data cataloging using AWS Glue
- Data lifecycle management
- Security and access control
- Case Study: Building a scalable data lake for enterprise data

Module 4: Data Processing and ETL

- ETL concepts and workflows
- Using AWS Glue for ETL automation
- Data transformation techniques
- Serverless data processing
- Workflow orchestration
- Case Study: Automating ETL pipelines for financial data

Module 5: Data Warehousing

- Introduction to Amazon Redshift
- Data modeling and schema design
- Query optimization techniques
- Performance tuning strategies
- Integration with other AWS services
- Case Study: Designing a data warehouse for retail analytics

Module 6: Data Analysis and Querying

- Using Amazon Athena for querying data
- SQL-based data analysis
- Data exploration techniques
- Performance optimization
- Cost-effective querying
- Case Study: Analyzing large datasets using Athena

Module 7: Data Visualization and BI

- Creating dashboards with Amazon QuickSight
- Data storytelling and visualization techniques
- KPI and metrics tracking
- Dashboard optimization
- Sharing and collaboration
- Case Study: Business intelligence dashboard for sales insights

Module 8: Security, Governance, and Optimization

- Data security best practices
- Identity and access management
- Data governance frameworks
- Cost optimization strategies
- Monitoring and logging
- Case Study: Securing analytics workflows in healthcare industry

Training Methodology

- Instructor-led training sessions with real-world examples
- Hands-on labs and practical exercises
- Case study-based learning approach
- Interactive discussions and Q&A sessions
- Cloud-based simulations and projects
- Continuous assessment and feedback

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