Building Modern Data Analytics Solutions on AWS

Duration: 4 Days Course Code: GK737X Delivery Method: Company Event

Overview:

Learn how to design, build, secure, and optimize modern data analytics solutions on AWS by leveraging data lakes, data pipelines, analytics services, and visualization tools to generate actionable business insights.

Our “Building Modern Data Analytics Solutions on AWS” course collection is designed for businesses. These courses dive deep into Amazon Lake Formation, Glue, EMR, Kinesis, and Redshift, offering hands-on knowledge about building and operating modern data analytics processes. Regardless of where your organization or your customers are in the data modernization process, this set of training courses will help you choose the right learning path to meet your specific business needs.

Updated Nov. 2026

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

This course is designed for IT professionals, developers, architects, engineers, and technical staff who want to develop, implement, or enhance their skills in modern cloud-based data analytics solutions.

Objectives:

- **In the four-course collection Building Modern Data Analytics Solutions on AWS, you will receive comprehensive training to develop modern data skills, including:**
- How to leverage AWS data services to store, process, analyze, stream, and query data to make decisions with speed and agility at scale.
- How to modernize data solutions from start to finish.
- Skills to put your data to work to make better, more informed decisions, respond faster to the unexpected, and discover new opportunities.

Prerequisites:

Participants should have a basic understanding of IT concepts, cloud computing principles, data management, and database technologies. Familiarity with AWS services and fundamental analytics concepts is recommended but not required.

Content:

1- Building Data Lakes on AWS

- Module 1: Introduction to data lakes
- Module 2: Data ingestion, cataloging, and preparation
- Module 3: Data processing and analytics
- Module 4: Building a data lake with AWS Lake Formation
- Module 5: Additional Lake Formation configurations
- Module 6: Architecture and course review

2- Building Batch Data Analytics Solutions on AWS

- Module A: Overview of Data Analytics and the Data Pipeline
- Module 1: Introduction to Amazon EMR
- Module 2: Data Analytics Pipeline Using Amazon EMR: Ingestion and Storage
- Module 3: High-Performance Batch Data Analytics Using Apache Spark on Amazon EMR
- Module 4: Processing and Analyzing Batch Data with Amazon EMR and Apache Hive
- Module 5: Serverless Data Processing
- Module 6: Security and Monitoring of Amazon EMR Clusters
- Module 7: Designing Batch Data Analytics Solutions
- Module B: Developing Modern Data Architectures on AWS

3- Building Data Analytics Solutions Using Amazon Redshift

- Module A: Overview of Data Analytics and the Data Pipeline
- Module 1: Using Amazon Redshift in the Data Analytics Pipeline
- Module 2: Introduction to Amazon Redshift
- Module 3: Ingestion and Storage
- Module 4: Processing and Optimizing Data
- Module 5: Security and Monitoring of Amazon Redshift Clusters
- Module 6: Designing Data Warehouse Analytics Solutions
- Module B: Developing Modern Data Architectures on AWS
- 4- Building Streaming Data Analytics Solutions on AWS
- Module A: Overview of Data Analytics and the Data Pipeline
- Module 1: Using Streaming Services in the Data Analytics Pipeline
- Module 2: Introduction to AWS Streaming Services
- Module 3: Using Amazon Kinesis for Real-time Data Analytics
- Module 4: Securing, Monitoring, and Optimizing Amazon Kinesis
- Module 5: Using Amazon MSK in Streaming Data Analytics Solutions
- Module 6: Securing, Monitoring, and Optimizing Amazon MSK
- Module 7: Designing Streaming Data Analytics Solutions
- Module B: Developing Modern Data Architectures on AWS

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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