AWS Data Engineering Training

COURSE OVERVIEW

AWS Data Engineering focuses on Data Pipelines, Data Storage, and Data Transfer, providing you with the skills needed to host big data and perform distributed processing on the AWS platform. This course is designed to enhance your knowledge of AWS Cloud Economics, Amazon DynamoDB, AWS Virtuous Cycle, Kinesis Firehose, DynamoDB Stream, EMR Operations, Spark Components, AWS Data Pipeline, and Redshift Architecture. Developed by industry experts, the training prepares you for real-world data engineering challenges and aligns with the AWS Certified Data Analytics exam. To benefit from this course, you should have a basic understanding of big data, Hadoop concepts, and AWS technical essentials.

WHO SHOULD ATTEND?

The course is intended for data engineers, data architects, database administrators, data analysts, and IT professionals responsible for designing, building, and managing data solutions on AWS. It is suitable for those working with big data processing, data lakes, data warehouses, and real-time analytics. This course is also ideal for individuals aiming to enhance their skills in building scalable and secure data architectures using AWS tools and preparing for AWS data-focused certification exams.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:
- Design and build scalable, secure, and cost-effective data architectures on AWS.
- Implement data ingestion, storage, processing, and visualization solutions using AWS services.
- Work with big data technologies, including Amazon EMR, AWS Glue, and AWS Data Pipeline.
- Create and manage data lakes and data warehouses using Amazon S3, Amazon Redshift, and AWS Lake Formation.
- Implement real-time data processing using AWS Kinesis and AWS Lambda.
- Ensure data security and compliance with AWS Identity and Access Management (IAM) and encryption methods.
- Optimize data storage and query performance using partitioning and compression techniques.
- Monitor and troubleshoot data workflows using AWS CloudWatch and AWS CloudTrail.
- Automate data processing and ETL workflows using AWS Glue and Step Functions.
- Prepare for AWS data-focused certification exams.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;
- How to build and manage data pipelines.
- AWS data storage and transfer.
- Working with big data on AWS.
- Exploring Amazon DynamoDB and Kinesis Firehose.
- Use of DynamoDB Streams and EMR operations.
- Spark components and AWS Data Pipeline.
- Redshift architecture.
- How to prepare for AWS Certified Data Analytics exam.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded